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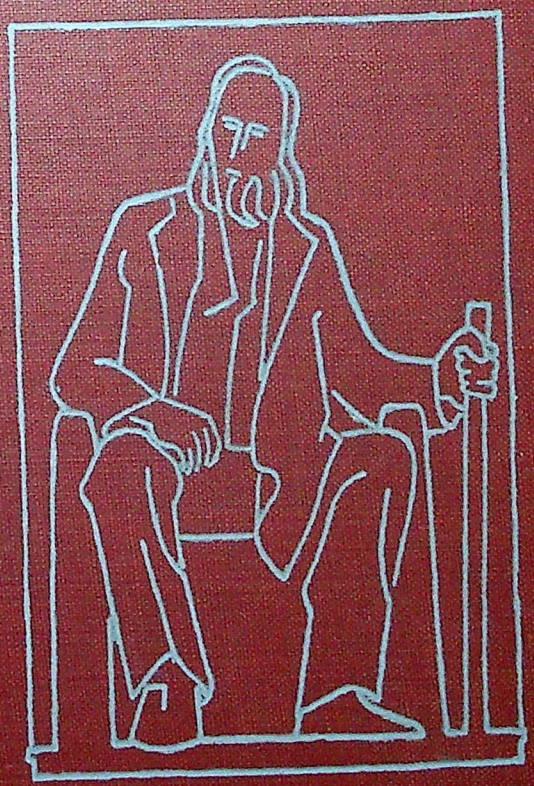
the cooper union 1948



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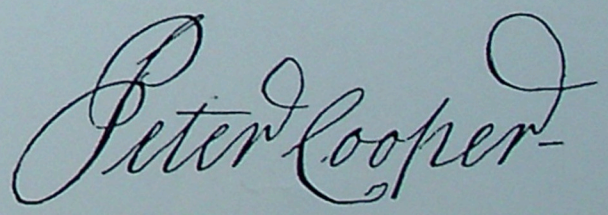

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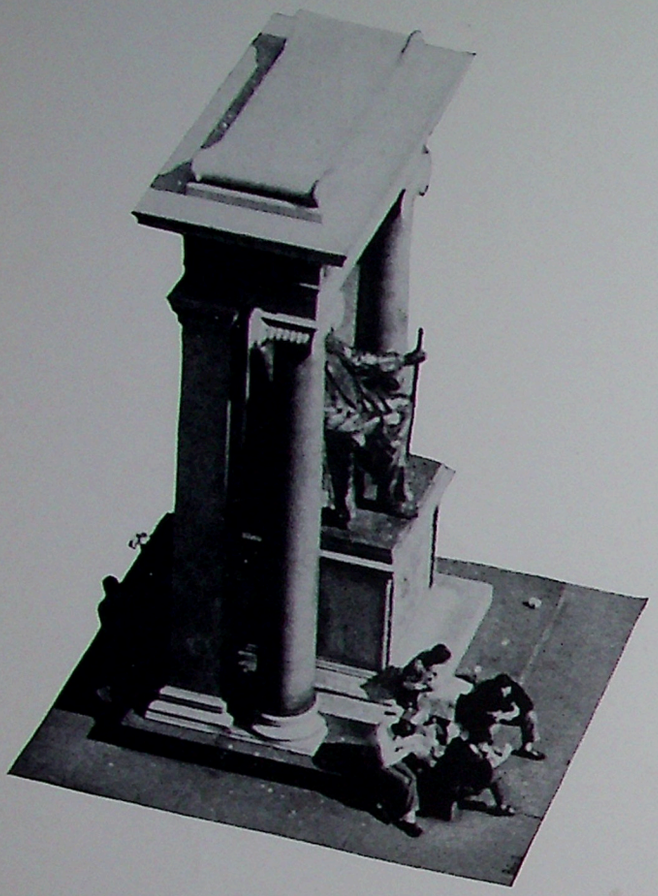

The 1948

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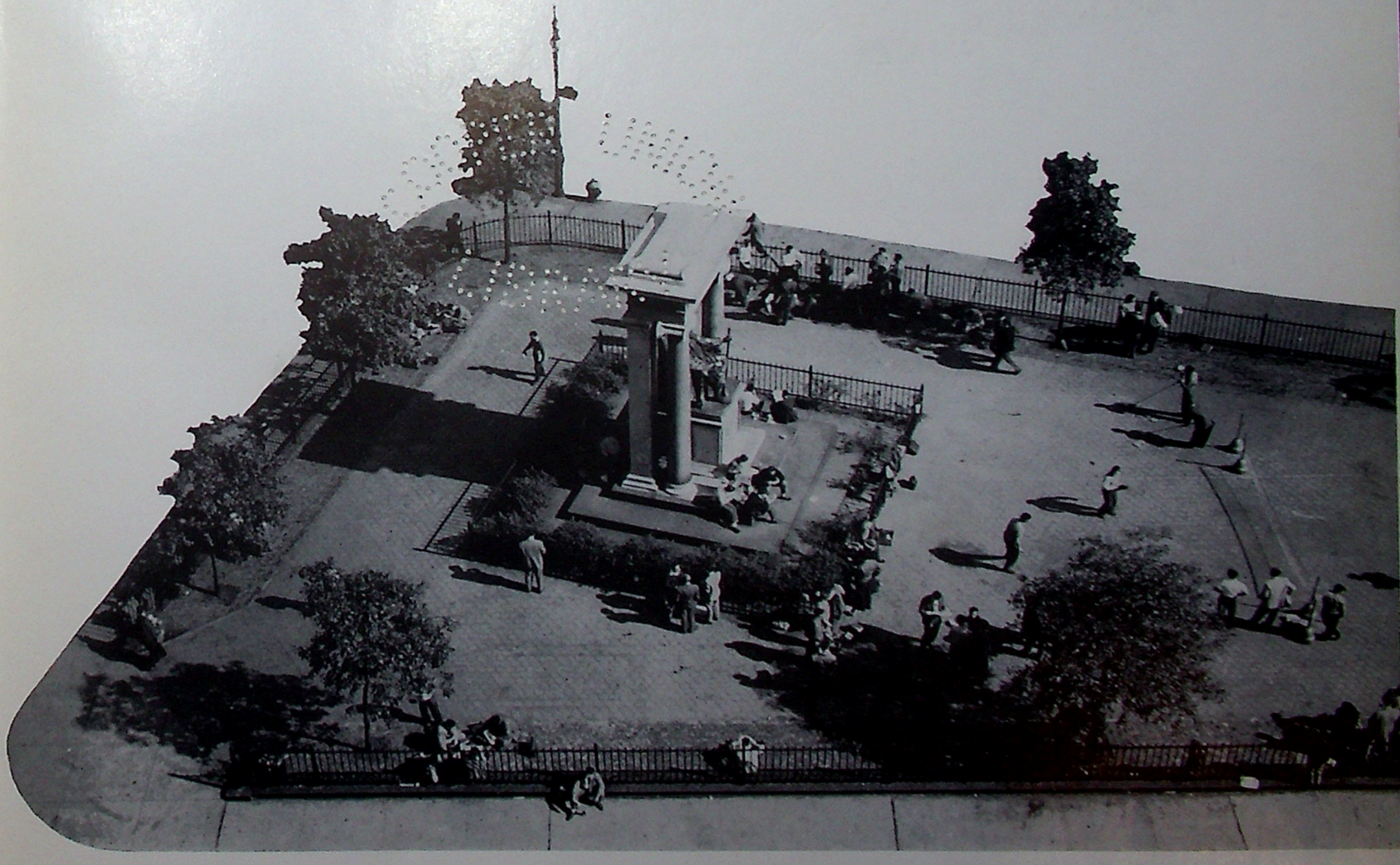

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We, the students of The Cooper Union, respectfully dedicate this yearbook to the memory of DEAN GEORGE F. BATEMAN

Cooper Union Library

The great loss to The Cooper Union in the death of Dean George F. Bateman cannot be measured by material achievements as one might be able to do were there bridges that had been built, buildings constructed, or industrial plants erected through his direct supervision. However, as an educator, it would not be difficult to point to such accomplishments that have come about through the efforts of Copper Union alumni: students who benefited through the interests and accomplishments of the Dean in the years of his teaching and administration.

Born in Halifax, England, July 4, 1886, Dean Bateman manifested always the British traits of thoroughness and insatiable interest in life. Those who review his career cannot help but be impressed by the many facets of his personality, but the two basic traits remain: his thoroughness for details and his interest in the necessary "humanities" that make the fully rounded life. Stemming directly from the latter, biographers will note the Dean's tremendous capacity and energy for untiring work.

Soon after 1900, Dean Bateman accompanied his family to New York.

Before entering the Cooper Union Day Course in Engineering he spent three years at practical work as a machinist's helper in power plants. While a student at The Cooper Union his three summer vacations were spent in electrical testing and power plant work, as were also the summers of 1915 and 1916. Graduated from The Cooper Union in 1907 (he was the class orator), Dean Bateman was immediately appointed to the teaching staffs of The Cooper Union Day and Night Schools, serving as an instructor in the Departments of Physics, Electrical Engineering and Mechanical Engineering. In the early years of his teaching he engaged with his colleague Pinto of the Electrical Engineering Department in electrical and mechanical engineering test work.

The First World War interrupted his teaching activity at The Cooper Union; for the period of the summer vacation of 1917, he joined with Professors Lucke and Parr of Columbia University in serving as one of the three civilian volunteer instructors on the staff of the U. S. Navy Gas Engine School at Columbia University. In May 1918 he was enrolled as Lieutenant (j.g.) in the U. S. Navy and detailed to duties in the training of engineer officers at the U. S. Navy Steam Engineering School, Stevens Institute of Technology, Hoboken, New Jersey. While there, he was in charge of the Department of Propulsion Machinery and later of the Advanced Course, being promoted to the grade of Lieutenant. He also organized and took charge of a field staff of investigators in marine engineering for the collection of practical data and information for class purposes and of an editorial staff for the editing of the subject matter given in the entire school.

In 1919 Dean Bateman returned to The Cooper Union as Assistant Professor of Mechanical Engineering for the purpose of developing the Mechanical Engineering Department which was then a part of the Electrical Engineering Department. In this connection new classroom subjects were inaugurated and the scope of the laboratory work extended. It is of importance to note that under his direction and supervision the Mechanical Engineering Department was expanded to practically double the original floor area. In 1925, finances permitted the first of his plans for the development of the Mechanical Engineering Laboratories to be realized by the installation of a Refrigeration Laboratory. This was followed by the Instruments and Auxiliaries Laboratory in 1926, and the enlargement of the Steam and Internal Combustion Engine Laboratories in 1928.

In 1925, he was appointed Professor of Mechanical Engineering and was placed in charge of the Department. From 1921-25, he was Chairman of the Oral Committee in the entrance examinations, and from 1922-31, Chairman of the Student Relations Committee. In 1931, after having contributed largely

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to the constitution of the new six-year night courses he was entrusted by the late Dean Hartmann with the negotiations which led to their official registration by the N. Y. State Department of Education.

In April 1932, two days after the death of Dean Hartmann, he was honored by the Trustees by being appointed Acting Dean and again in May 1933 by being made Dean of the Schools of Engineering. To his continual regret, these promotions and subsequent reorganization denied Dean Bateman that intimate contact with the general student body which he enjoyed so greatly in the classroom and when Chairman of the Student Relations Committee. Even under the pressure of administrative duties, however, his happiest moments were those spent in advisory service with the many students who, due to various adverse circumstances found themselves in difficulties, scholastic and otherwise.

Throughout the busy years of his teaching activity he was an active member in Professional Societies, Clubs, and Alumni Associations. He was a member of the Council of the American Society for Engineering Education, United Engineering Societies Library Board and Executive Committee, Standing Committee of Professional Recognition of the Engineers' Council for Professional Development, Committee on Abbreviations of the American Standards Association, Advisory Committee on Biography of the ASME, Publications Committee of the ASME, as well as being an active member of the American Society of Mechanical Engineers, American Society for Engineering Education, New York Electrical Society, The Newcomen Committee, and the Tau Beta Pi Association. He was a Fellow in the American Association for the Advancement of Science, Director of the New York Electrical Society over the years 1940-47, and President of the latter group for the years 1944-46; further, he was Chairman of the Survey Committee of The Barstow Award for the New York Electrical Society, and Chairman of the Committee on Meetings of the Middle Atlantic Section of the American Society for Engineering Education. Well known were his activities in the Century Association, and the Grolier, Engineers', and Columbia University Clubs. He was always actively connected with Cooper Union Alumni affairs, having been a charter member of the Cooper Union Day Alumni Association

and its first secretary from 1907-14. He was also secretary of the Organizing Committee of the Cooper Union Alumni Association, and the first secretary of the new formed Association from 1908-10. In 1916, he was appointed a member of the Organizing Committee of the Cooper Union Alumni Federation.

His unbounded Christmas spirit and keen fellowship for his colleagues and students led him to inaugurate the first Christmas Party of the Mechanical Engineering Department. This affair has now become a traditional annual affair to which all alumni look forward each year as the focal point for the renewal of friendships and an affair at which undergraduates have an opportunity to meet the alumni and to give vent to good-humored lampooning of staff members. Dean Bateman attended all but the last Christmas Dinner when, due to his illness, he could not be present. In true style he sent a humorous letter to be read, making light of his illness and expressing his deep regret for his first absence in twenty-four years. He spoke at all of the affairs and delivered a stirring message each year.

Dean Bateman's interests beyond engineering were catholic. He was a devotee of the theater, concert stage, and opera; his knowledge as a gourmet procured for him a reputation among his friends who came to him for suggestions.

Members of the staff recall particularly the period from 1927-38, when high points of Dean Bateman's years were annual tours of Europe, as necessary relaxation after his strenuous scholastic duties. Well known to intimates was his anticipation, each year, of the leisurely ocean crossing Caronia whose engineering officers he counted as his friends. His preference for the Caronia, even though it was a slower vessel than most, arose from his love for reciprocating engines and his delight in feeling the under-deck pulsing—typical of such engines. The nook in which he spent a good deal of his time reading was always a point to which friends wishing his bon voyage were shown without fail. Years afterward visitors to the Dean's Office at The Cooper Union were treated to the sight of the ship's bell from the Caronia, suitably mounted in nautical setting, obtained by the Dean when the ship was sold by the commercial line. These annual tours by the Dean were enjoyed almost equally, albeit vicariously, by the staff members who received his long letters describing in amazing detail the impressions he received of sights famous and minor. Those who decry the typical engineer's inability to write well perhaps never had the pleasure of reading Dean Bateman's letters.

His trips across the European scene were not done in a tourist's manner, but were accomplished leisurely with a specially constructed bicycle with a six speed "gear shift" and a large rear-wheel hand brake, the latter being a necessity when descending some of the far from level terrain through Switzerland, Northern Italy, Jugoslavia, and central Austria. It was this latter locale, east of Salzburg in Styria and Carinthia, that most pleased the Dean for he sensed some kinship there, feeling that his ancestors had been natives of that region. Tourists and collectors are often synonymous terms and, in this respect, Dean Bateman was no exception, devoting himself to the acquisition of all of Baedeker's Guides plus other valuable early American and English books of travel, his collection finally numbering several thousand volumes of guides, bulletins, maps, and topographical descriptions and data.

In 1937 he married Miss Mildred S. Wolf, a graduate of the Secretarial School of The Cooper Union, whom students and alumni know as the Registrar of The Cooper Union.

Those who were his classmates have lost a companion. Those who were his students have lost a leader, exemplifying all of the best in the engineering profession. Those who were his associates and those who knew him as an administrator have lost an understanding professional aide. All have lost a friend.

Herbert F. Roemmele

Professor
Mechanical Engineering

Dunn

Root

Gifford

Henry

Olds

GANO DUNN, electrical engineer, doctor of science from City College, Rutgers, Columbia, Lehigh, and New York Universities. Doctor of Laws from Bowdoin College; recipient of the Edison, Hoover, Townsend Harris and other medals. Trustee of The Cooper Union since 1924 and President since 1935, succeeding the late R. Fulton Cutting. Member of National Academy of Sciences; former Chairman of National Research Council; former President of American Institute of Electrical Engineers. President of the J. G. White Engineering Corporation, engaged in engineering and construction in United States and foreign countries.

ELIHU ROOT, JR., lawyer, has been a Trustee of The Cooper Union since 1929. In 1909 he became a member of the firm of Root, Clark, Bruckner & Ballantine. A Major in the 304th Infantry A.E.F. 1917-1919, Mr. Root also served during World War II as a member of the United States Army Air Corps Strategic Target Board and received the Presidential Medal for Merit. He received his A.M. from Hamilton, in 1905, a LL.D. in 1939 and a LL.B. from Harvard in 1906.

He is a Trustee of Hamilton College, New York Public Library and the Metropolitan Museum of Art.

WALTER S. GIFFORD, executive, has been a Trustee of The Cooper Union since 1931. In February 1948, he was elected chairman of the Board of the American Telephone and Telegraph Company after having been its president since 1925 and is a director of the First National Bank of New York and trustee of Johns Hopkins University, General Education Board, Rockefeller Foundation, and the Metropolitan Museum of Art. He is also chairman of the Community Service Society of New York, and a member of the Board of Overseers of Harvard University. He received his A.B. from Harvard in 1904 and holds honorary degrees from Williams, Colgate, Oberlin, and Union colleges, and in 1946 was awarded the Presidential Medal for Merit.

BARKLIE HENRY, the youngest of the Cooper Union trustees, served in the U. S. Naval Reserve during World War II, having been commanding officer of a submarine chaser, and of two destroyer escorts. He retired to inactive duty with the rank of commander. In 1935 he was appointed a trustee of the Cooper Union. Active in the field of hospital and welfare work in New York City, Barklie Henry is a director and member of the executive committee of the United States Trust Company of New York. Mr. Henry was born in Ventnor, N. J. in 1902, and graduated from Harvard in 1924.

IRVING S. OLDS, lawyer and business executive, became a Cooper Union trustee in 1945. Since 1940, he has been Chairman of the Board of Directors of the United States Steel Corporation. Mr. Olds is a trustee of the Metropolitan Museum of Art, the New York Historical Society, and Yale University. Born in Erie, Pennsylvania, in 1887, Mr. Olds graduated from Yale in 1907, and from Harvard Law School in 1910. He is a collector of American naval prints.

TRUSTEES

ADMINISTRATION

DR. EDWIN S. BURDELL has worked conscientiously toward the improvement of the school since his appointment to the directorship of The Cooper Union in 1938. One of the outstanding achievements of his administration has been the program of liberalizing the art and engineering courses. This program, which places increased emphasis upon humanistic studies, has provided the student with a truly professional education.

DANA VAUGHAN, Art School dean, was appointed to his present position in 1945. A well-known and experienced educator, he was director of the School of Industrial Arts at Trenton, 1942-1945, and dean of the Rhode Island School of Design from 1928 to 1942. Dean Vaughan has studied at Brown and Harvard Universities and the University of Upsala, Sweden.

NORMAN L. TOWLE was appointed to his present position of Dean of the Engineering School upon the sudden death of Dean Bateman. He is senior member of the Engineering School's faculty and was head of the E. E. department for 16 years. Dean Towle had done extensive research work and is a graduate of Worcester Polytechnic Institute.

WALTER S. WATSON, recently promoted to Professor of Psychology, has presided over the Office of Admissions and Student Relations since 1939. He has contributed greatly to the establishment of closer relations between faculty and students. His own boyhood and varied experiences account for his understanding of the problems of college students, veteran or non-veteran, male or female.

HERBERT F. ROEMMELE, head of the newly formed Division of Industrial Relations, has been a member of The Cooper Union faculty since 1927. He graduated from this school in 1925 with a B.M.E. Professor Roemmele is a licensed professional engineer and is former director and vice-president of the N. Y. County Chapter of the National Society of Professional Engineers, chairman of the ASME Committee on Student Guidance, and is an active member of the American Society for Engineering Education.

Burdell *Vaughan* *Towle* *Watson* *Roemmele*

Classes

SHELBY PENBERG

pre-engineering

"Give me some men," said Peter Cooper in 1859, "who are stout-hearted men and I will return fifty percent of them as fully qualified engineers." Whether or not the founder of our school ever uttered those words cannot be proven. Nevertheless, the freshmen engineers are strong believers in the authenticity of the quotation.

The saga of the Freshman Class begins on September 17, 1947 when the 108 embryonic engineers entered the hallowed halls of Cooper to register for classes. However, a more interesting and certainly more pleasant side of the Freshman Class exhibited itself at Green Engineering Camp a week earlier when the freshmen were introduced to some of the faculty as well as to one another. At camp it was discovered that as long as the fellows were well fed and well supplied with sporting equipment, they were a surprisingly amiable group of young men.

However, under the conditions of severe mental and physical strain encountered at Cooper Square, the group underwent a metamorphosis unparalleled in the evolution of man. Gone are the grinning faces seen at camp, gone are the carefree attitudes and in their place are physics books, slide rules and haunted looks.

The group was divided into five sections, and the fellows got to know their own section pretty well. Suppose then, we look into the life and history of a few of these sections and see just what makes the Freshmen Engineers tick.

When Registration Day arrived and all the freshmen joyfully awaited the beginning of their first day of college life, an event took place that is destined to go down in history. The elite of the group, the mental and physical genii, demanded that they be put in one class. Thus, Section I was born.

"Variety is the spice of life" may well be chosen as their motto, for a more widely contrasted group cannot be found anywhere. Charles "Tonsils" Blaut does his best to prove that good things come in small packages. When Charley whispers, the walls vibrate. Edward Arthurs, a 200-pound bruiser, is certain that the teachers are out to break him. Eddie is particularly wary of Prof. Hollinger and once said "He won't get the best of me" as they picked him up from the gym floor. Erwin F. Conrad, the "Answer Man," delights no one as he rattles off the value of Pi to 32 decimal places or gives the atomic number of every known element.

Quite naturally, even a group of such high caliber as this one has a few recognized leaders. Richard Bemis, the drafting pro, promises to continue as the pace setter of the Engineering Drawing class and Paul Burri is likely to continue to astound Prof. Eastham with his mathematical ability.

Here we have just a few of the students who have spread the fame of Section I throughout the school. It is certain that they can be relied upon to continue their good work and make full use of their exceptional talent.

If it's talent you're looking for, you don't have to look any further. We have plenty of it here in Section II. Georgie Hoffner isn't a professional magician but he is always ready with a new card trick when things slow down. Our basketball quintet, Norman Feldman, Bill Goldstein, Morty Hausner, Bob Reece and Ed Hilzinger burn up the court during practice sessions so you can imagine how they would play in a real game. Bill Haflin, our star runner, flashed by the mile mark in 5:32. "Flashbulbs" Goodman always has his candid handy, insuring a perpetual smile from all our instructors. Art Frank and Rudy Hohenberg are the two draftsmen in the class. They can be always depended on to turn out masterpieces of the pencil-pusher's art. "Sherlock" Holmes Hallock is an ex-piano player. He can't play in school though, because he is used to having a glass of beer on the piano while he is playing—for the correct vibrations, of course. Bill Evers, Herb Davison, and Charley

Heidengren are three of the potential EE's in the group. They all have some hair-raising experiences in store for them. Lenny Green, who commutes from Jersey, just became the heir to a brand new constitution, while the other ex-G.I.'s who live in N. Y. got a $250 bonus—he's looking for an open man-hole—but if it's a comedian you're after, you'll find it in the shape of Jerry Heilweil, a dainty 200 pounder, who never refuses a butt. When offering any one of them a job, just say "Dave sent me."

Section V is in full agreement with the theory of segregation of genii as propounded by Section I. This agreement arises from the fact that the fellows who are most certainly destined for success were all put into one section. (The fact that the last names of the fellows in Section V all begin with letters between S and Z is merely an alphabetical coincidence.)

Imagine, if you can, being a part of this seething, bubbling cauldron of mental and physical activity. Picture yourself in the presence of men like Meyer "Mike" Zonis, owner of the finest collection of Henry Morgan's jokes ever to set your ear drums vibrating. Mike's real talent lies in the field of making people laugh and he is here at the Cooper Union pursuing a course in Chemical Engineering in his spare time.

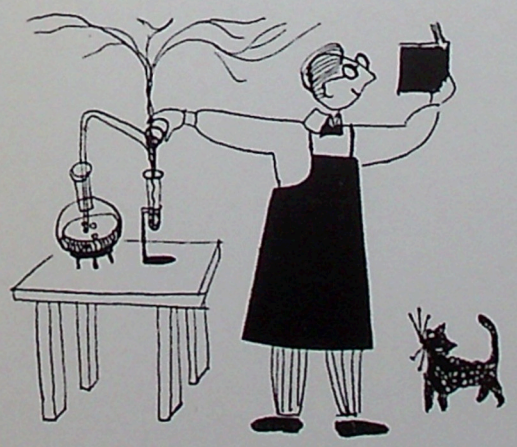
A character who is perhaps not as bright as the rest but who, nevertheless, makes an interesting psychological study is Mel Smith. In the interests of fellows like himself who detest letter writing, Mel, together with Mr. Caldiero, is inaugurating a campaign to have letters of resignation to the Dean mimeographed.

Well, there you have them, the richer, the poorer, the better and the worse, and whom alphabetical chance and good fellowship have joined together—let no man pull them asunder.

chemical engineering

The best place to meet the Chemical Engineering class of 1950 is the chemistry laboratory on Tuesday afternoons. Professor Hope, who must meet these, his dearly beloved "children," four times a week, is in charge. May I perform the introductions?

On your right is Mr. Chajson of the perfect "Hope method" copper analysis, who played such a realistic part in the class contribution to the Freshman Reception. . . . Next, Mr. Davis, speed demon of the class, racing between the five simultaneous determinations, and the balance room, every few seconds. . . . We have now reached Mr. Dolgon, by far the best known in the class, who, with Al Dworetzky, is responsible for all songs, stories, witticisms, and most remarks hailing from the group. To them we owe the class pledge: "We pledge allegiance to the Periodic Table of the Department of Chemical Engineering, and to the confusion for which it stands; one molecule, indivisible, with 0.1 normality and milli-equivalents for all." . . . Al is now qualified to deliver a lecture on "How not to remove a thistle tube from a rubber stopper." . . . Jack Feder's back may at any time be anointed with splatters of a silicon evaporation, or molten bisulfate particles, courtesy Mr. Schaeffer . . . in Public Speaking, "I think the speech was all about dreams" followed a ten-minute oration in which dreams were mentioned every ten seconds. . . . Dick Keates, one-man Port Jefferson Chamber of Commerce, is at constant odds with the L.I.R.R. over punctual train arrivals. . . . On the other side of the table, meet Elizabeth Reiman, holder of the dubious title of "prettiest girl in the class," and expert at diluting 6N HCl to 0.1N HNO_3. . . . Gene Runes still has failed to clarify why students should rather take a Physics exam than go to a dance. . . . We all hope that Marvin Schaeffer has been able to teach his girl how to play Bridge . . . we would have given up long ago. . . . Messrs. Sobel and Tischler, track men, keep the Math class in order from the back of 111. . . . Marvin Turken, after enough exams, will have a real curl in that forelock of his that gets twisted constantly. . . . His neighbor, Sol Zaromb,



eclipses him almost completely—he was first at attempting to titrate 1M, instead of .1M NaOH; Prof. Hope seemed to think he should have stopped after running in five burette-fulls.

By the time your first two years are finished, you become accustomed to the delicate odors drifting through the fifth floor halls. The sound of expensive equipment crashing to the floor leaves you emotionless and you are a stranger at home with the acid scars on your arms and the acid stains on your fingers. The grind has begun to tell—you get a little weaker, things become blurred and you may even lapse into a coma just as Henry Schwartzberg. Perhaps, you even become a poet, and write this:

should you ask me where these stones
where these legends and traditions
with the odors of the chem lab
with the smoke of burning messes
with the smash of breaking glassware
with their frequent repetitions
and their wild reverberations
as of thunder on the fifth floor

i should answer i should tell you
from the wilds of jersey city
from the fastness of kings county
from the mountains of the bronx
from the jungles of manhattan
come these burette waving warriors
to the fifth floor laboratories

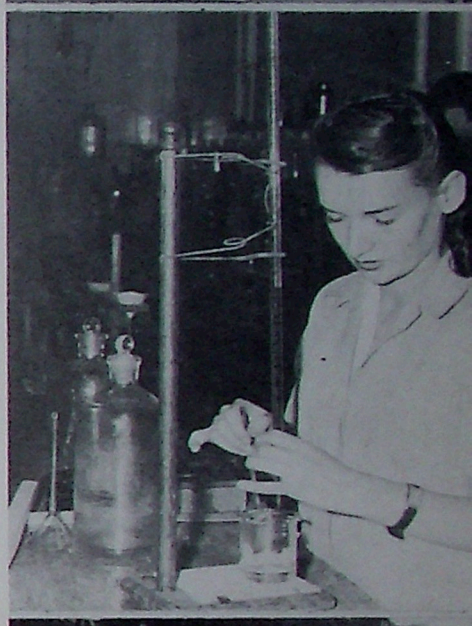
i repeat them as i heard them
from the lips of wise old sherman
as their mentors lay about them
with black snake whip and book in hand
who are these warriors brave and mighty
listen and i shall tell you

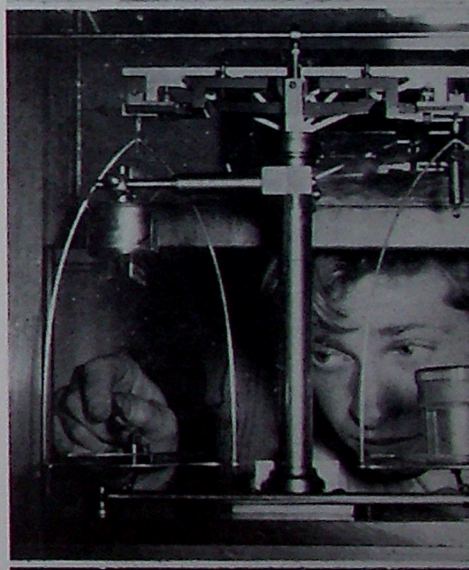
len naphtali who swiftly cometh
to enter late at every session
hockstadt marksman of the shutter
aimeth his camera at helpless victims
luberoff of the irrelevant question
who driveth teachers mad with anger
brody innocent of knowledge
asketh oft stupid questions
chaboty sweet singer of the chem lab
crooneth quote i love you
as i never loved before unquote

on the shores of 501f
of the shining chem dept
stood the sachem prof peterson
pointing with his finger northward
to the fragrance of the brewery
makers of the ruppert beer
to the shores of north new jersey
go this band of brave titraters
to visit calco calco chem co
subsidiary of the american cyanamid co

as we crouch around the burners
singing of the days of old
of the wise men of the tribe
peterson bassemir hochstadt o driscoll
sly rottman and cunning k square
plot their fiendish freshman reception
marder and his chess board
seeketh a mate at every move
horn salty denizen of the deep
sends his canoe against the sea

silent williams counsellor pearlman
deep voiced kaufman taciturn weil
shed their luster on the tribe
and shall we sing of herb j wagner
professor hopeless of bygone era
henry schwartzberg and countless relatives
who are unique among their tribe
manes mounted on his studebaker
dashes off to pittsfield mass
and we can sing of many others
who to this story add their share
but they have sunk beneath the waters
sunk beneath the test tubes waters
and we best had left them there





civil engineering

Many have wondered about the group of men who always stand on the street corner long after the bell has rung. They do not seem like "derelicts of the Bowery" in appearance, but their talk is strange. The conversation seems to embrace philosophy, politics, sociology, and a certain amount of talk about "free-body diagrams." It's no secret as to who these people are. They are the Civil Engineering Sophomore Class.

Leading the political discussion are Jim Boulgarides, Noah Sirota, and Stanley Haug. Harvey Sherman, Don Kirchhofer, and Ted Merkin are gathered around Frank Kovacich as he expounds weightily on some aspect of philosophy. To some members of the class, a correct approach to science is almost as important as a Physics test. Not as concerned with abstractions are Artie Schwartz, Harry Margolis, Billy Michael, and George Polyn. They are talking about the good old days before the war, when you could flunk a subject three or four times, and still remain in Cooper. The rest of the class are materialists—they talk about school work.

It takes ten minutes before someone remembers that this is Cooper Square, not Union Square. The signal to go in comes from Leon Laster, who puts the cover on his inevitable pipe and reluctantly deposits it in his pocket. As they enter through the doors, some of the group burst into song. Wolf Homburger is the leader of the school glee club, and most of the class are in it.

The classes are as lively as the discussion preceding them. Perhaps it is one of those inimitable Physics sessions. Somehow Mr. Levin could never quite convince us "not to worry about it" as he handed out the familiar yellow sheets of paper for another quiz.

If it's Wednesday, and shortly after lunch, the class can be found in the library, busily concocting speeches that would sway the world, or better yet, Mr. Grover. It was in Public Speaking that we discovered that Joe Paduana was an expert bartender, and that Tony Eck likes

to mess around in boats. And talking about discoveries, imagine our surprise when we found out that Bob Lenz wasn't Tom Sherrier's bodyguard, but actually a member of the class!

The Geology field trip is a little excursion that is familiar to all who study Civil Engineering at Cooper. It consists of the inspection of a large variety of rocks in New Jersey, and constitutes an important part of the course. The field trip also gave us our first chance to see what the CE night men look like. When we first saw them climbing into the bus we couldn't believe our eyes. They looked just like real engineers—the Warshaw ideal—fellows from way out in the field. However, when Howard Elliott started muttering a menacing gripe about Cooper Union courses, we were assured. The night men were only students after all.

Mr. Roberts' disregard for all obstacles that would prevent him from displaying the New Jersey rocks to his students has become legendary in the Department. This year it rained pretty hard, but Mr. Roberts was not discouraged, at least not until he noticed that most of the students were being washed away by the current. Then, when he saw that the number of students leaving the bus to look at the rock had dwindled to a mere six, we called it a day.

Back at Cooper we sometimes manage to stay Monday evening for the ASCE meeting. That's the time when we talk things over with the other CE's and hear about the strange characters in the Junior class. Not only do we hear of such characters as Jack "The Gonef" Gonick, Leon "Abdul Pasha," and "Glamor Boy" Sicular, but also of the things the class has done.

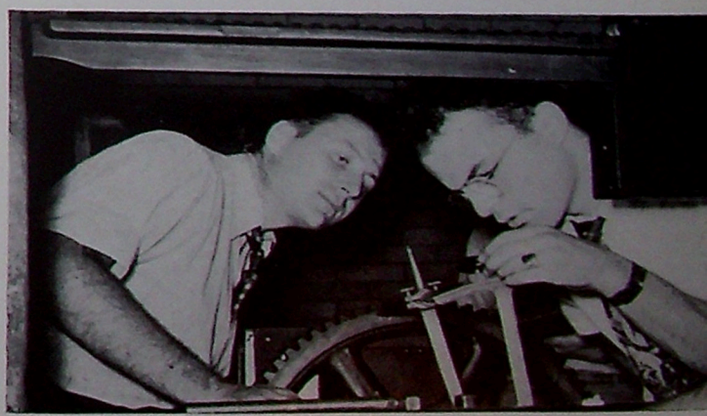
The Juniors have something the school could use more of—and that's spirit. In intra-mural sports there's always a good team in there, fighting. Last year the 3CE's were placed first in practically everything they did, with a few exceptions when they came in second. This certainly is a tribute to their hustle and willingness to get away from their studies for a while. The latter practice is, however, not as universal as one might suspect. This year the class is loaded down with three labs and it's amazing to find it still playing ball.

This year, the volley ball team, with Gil Marin, Sam Erde, Logan Ingram, Ted Aster, Eli Rubin, Les Gabrilowitz, Dick Wengraf, and none other than our flying sailor, Don Chilton, repeated the victory it had in last year's tournaments.

The team gets a lot of moral support from the cheering section in the form of Ruthie ("Mother") Bowden and Gerry ("Guiseppe") Gardner. Ah, yes, not many engineering classes can boast of a girl in their class—and besides, "Mother" comes in real handy for torn clothing and loose buttons. She carries a portable sewing kit around in her pocketbook, just to make sure that her CE's are not in tattered clothes.

Besides sports, the CE's have branched out into the literary world. They started the only paper in any of the engineering sections to date. "The Survey" was started last year and has continued to be published successfully, with Editor Eli Rubin doing a mighty fine job. Next year the paper will depend on this year's sophomore class to keep it going after the other CE's graduate.

If you know any CE's you must certainly have heard of those two peerless individuals—Joe Zappo and Rodney P. Dangerfield. Even Professor Embler is acquainted with them. They've got the right idea about things. Nothing seems to make them feel blue. They have been in Cooper for nigh on three years now and are proud of never passing an exam. How they do it is really remarkable (or is it?). At any rate, we know one thing. Unless Rodney stays around, there may not be anyone left to write the CE story next year.



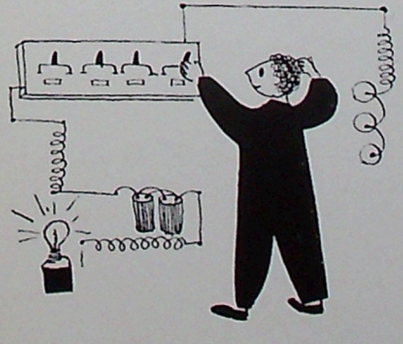
electrical engineering

Kirchhoff in his wildest moments could never have dreamt of our Electrical Engineering students. There is no basis or plan for our actions. We are unpredictable and defy interpretation. This can easily be verified by asking either our instructors or our fellow engineering students. The first method is the safest of the two because we would not advise anyone to ask the C.E. students about E.E.

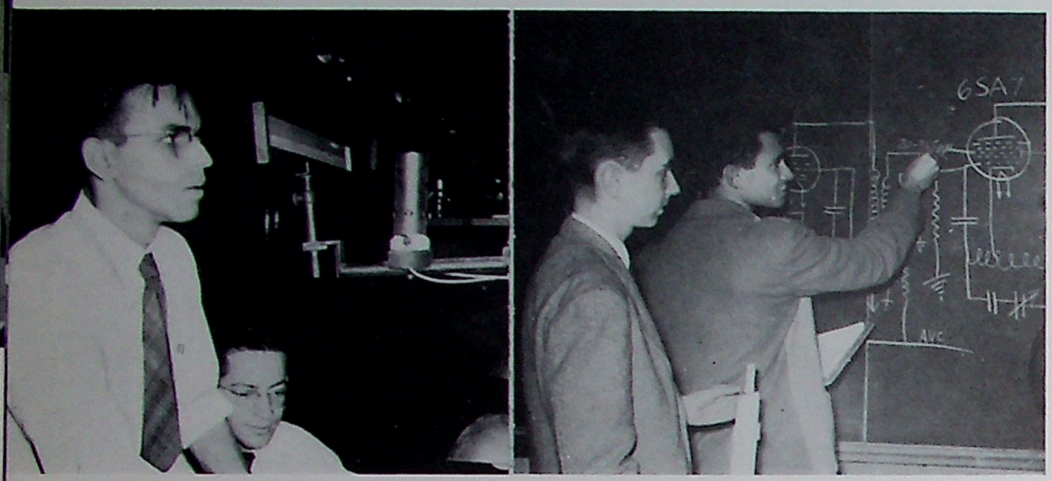
Although the second year is divided into two sections, the split is in name alone, because both sections are overflowing with characters—weird personalities competing with each other. For instance, there are those who can be relied upon to originate material, such as laboratory reports, and those who can always be depended upon to originate the thirty-nine carbon copies of same. There are those who sleep in the Mathematics class and those who prefer the Mechanics Lecture. On the average we all lead a well-balanced academic life.

We have our Messrs. Jack Priest and John Nolan, who are two reasons why volleyball nets are so high, despite the frantic pleas of Loveman to lower them. . . . Murray Silverman, heartily seconded by Oxley, still feels that 9:30 A.M. is an ungodly time of the night. Of course, Murray Preisler has a legitimate excuse—he's married.

Hy Stein is interested in turning Hunter College into a U.S.O., while Bill Horozan is trying to buy commuter tickets on the Lexington Avenue Line. . . . Wherever there is an intellectual long-hair, on a female head, you'll find Harry Spett. . . . Bob Kanzler has stopped smoking again this year and Sid Kaufman's expenses have risen accordingly.



"Big Jim" Spool is make-up man for the Pioneer and wishes he could make up with his girl as easily. . . . A. Roth, known to his classmates as C. B. DeRoth, seems to be having operator trouble with the projector in the Physics class lately. Recently the contraption snapped on his arm, so the rest of the class had a ten-minute break while he was being pried loose. We are taking up a collection now for "services above and beyond . . ."



Dali's right hand man, Richter, is the expert on surrealism. . . . Jerome Sable is writing a book of the wrong answers to the Mechanics problems, while Matcovich is seeking the answers in the stars. . . . Mel Stern and Bob Cox promise to take apart and then integrate anything they can get their hands on, including an erector set. . . . Spann and Romagnoli are always nearest the door—expecting a phone call, boys? . . . Silverstein doesn't have enough homework to keep him busy, so he's getting married.

Archie Boscia, popping in and out of uniform for the first few months of the year, has finally decided to stay with us—subject, naturally, to overruling by the Mathematics department. He's interested in this new fraternity, Sigma Kappa Tau. . . . Herb Dropkin and Walt Springer are the original copy boys for most subjects, while Kestenbaum and Phil Geller produce the most traveled Physics reports. . . . Jerry White captains the volley-ball team between his oil drop experiments. . . . Reiser says: "The heck with elephant hunting—porcupines are my meat!" . . . Munt, when not knocking off his "straight A's" is an able assistant.

John Simms would like to see a coke—no hypo's necessary—bar set up in the new lounge. Agresta agrees to tend the bar, provided he can have the bar-rag squeezings. Hammer would sweep up—all he wants is the bottle caps. . . . Knock three times and say, "McSorley sent me."

The way Kernan and Hofmann are synchronized still amazes the boys. They always finish the physics problems at the same time—maybe its hand signals under the table—it wouldn't be so bad if their code wasn't in German.

Irwin Leitner persists in co-managering the volley-ball tournament despite threats from opposition sources. . . . Cy Roth and Charley Schneider are still going "steady" to their tenth floor rendezvous in the tradition of old Section 5. . . . Falk, the "Section orator," has volunteered his services to F. E. Boone. . . . Knapp is still the brother-in-law of Fang Madarotz by a questionable bond.

Max "Hot Lips" Geller is the only man known to have survived the horrors of the Hunter College locker room. We're still trying to find out just what happened that day. . . . Walt "Baby Faced" Edge was last seen trying to shoot his way out of Adler's. He still insists that he had only one cup of coffee.

Girls! If you want to get into Schwartz's little black book, just speak from the diaphragm. . . . Irv Hammer may not get ahead in the day school but those night school courses give him a head start. We all knew what the A.P. went through when we saw Max Kerman with a new suit. . . . Phil Goodman and his "Nellie" are still going steady even though she's kind of chattery and in need of a grease job.

The third year EE's have their characters, too. Their theme song is "Once we were happy, but now we're EE's—our lives they have stolen away." With minor variations, this plaintive ditty is constantly to be heard echoing down the halls of the Hewitt building—and, with good reason, too, since the third year has just emerged from under a stack of Electric and Magnetic circuits problems and M.E. Lab reports, only to be snowed under by Electronics and Machines Lab reports.

Sympathy was given to Alfred Frankel when Mr. Gerardi, civilization instructor, informed us that Frankel's brother died. Sympathy was taken back soon after Mr. Gerardi learned that the deceased Frankel was a figment of Al's imagination.

Unanimous vote gave Seymour Gordon the title of Class Historian. Gordon gave a speech in class on Louis XIV of France, and was so far off base that he had to be excused.

"Man of Extinction" is the title sported by Herb Cohen—not that he is opposed to the right of free speech, but, when he is trying to do a problem he prefers the rest of the class to remember that silence is golden. Still, the air is silvered when Cohen wants a question answered.

Joe Turtil is another man to whom silence is precious; that is, precious because of its rarity when Joe is around. The Army gave Joe many "shots" for yellow fever, typhoid fever, and the like, while he was in Korea, but unfortunately, the only type of shot yet found to keep Joe quiet could not be administered because it is 100 per cent fatal.

It musn't be thought that the EE classes were frivolous, however. To use Mr. Jastrow's favorite expressions, the work done in his Analytic Mechanics class was both "good" and "okay." Other instructors will give the same reports of the classes, and posterity will confirm them.

mechanical engineering

By some strange coincidence, the first hour of the new school year for the Sophomore ME's happened to be Kinematics Drawing—and before they knew it, they were well started along the straight, but very narrow road to becoming great engineers—at least that's what Prof. Griswold told them!! And it's the truth—about the road being straight and narrow, that is!!

Everyone said that Kinematics would be easy—until a problem involving twenty-one instant centers was given on an exam. It wouldn't have been too bad, except that some of the geniuses such as Eli Reshotko and company had to get the right answers. Speaking of geniuses, this class has more than its share. If you were to walk into the Math class, you would probably find Gene Wachspress arguing with Prof. Miller about next month's assignments. On the last exam, we found out what an "advanced problem" is—a problem that Prof. Miller couldn't solve for two days, that you're supposed to work out during a one-hour exam!

At the beginning of the term, Lenny Belkin would have been easily mistaken for one of those "forgotten men" of the Bowery. But, Mr. Caldiero's insistence that college students should wear a white tie and tails has prompted Lenny to buy a tie. He now wears it with his best polo shirt.

Cooper Union has quite a few characters roaming through the halls, but no other section can claim Artie Kaplan, the man who sleeps in his talk. He is a second "Mumbles" when he comes to Public Speaking class. Still, he manages to get around, as he is on the Varsity Basketball team. Joe Engelberg is another exception—he is undoubtedly the bravest man in the class. After a long, tiring trip by IRT to enemy headquarters at Hunter College, he persuaded Miss Subways of Nov. 1947 to pose for cheesecake pictures. Knowing Engelberg, it is hard to understand why he returned to Cooper.

The Physics Dept. is in a dither over this group—or over one student in particular, anyway. It is rumored that Prof. Read and Mr. Levin can't decide Bernie Fisher's grade—shall it be D, or E, or F—or shall they go all the way—with a capital Z?

And so, as the M. E. Dept. gets its first glimpse of the ME Class of 1950, we leave these relatively quiet boys for a group that will leave you speechless —the Jr. ME's.

This year, the almighty authorities tried to subdue this cozy little group of Third Year ME's by splitting them into two sections, but as usual they were fooled. The schism brought forth some hidden talent and the students are just about as nutty as they were last year.

The principal hangout of at least half the class seems to be the CABLE office. There is a good reason for this, as the class is well represented in each of the groups that make this office their headquarters. Howie Molk is the treasurer of the Activities Plan, while Dave Young and Hank Hirsch are, respectively, Business Manager and Associate Editor of the Pioneer. The CABLE Staff is just about packed with 3DME's. Bob Sheridan is the Editor-in-Chief, Cy Freeman the Business Manager, and Eddie Greenberg the Advertising Manager. In addition to these, Joe Deare, Bernie Hillman and Ernie Oppenheimer are on the staff. Others who use this office as a central point for doing their ME lab reports and EE homework are Howie Silfin, President of the Athletic Association, and J. P. Friedman, whose only claim to fame is being class president and President of the Student Council.

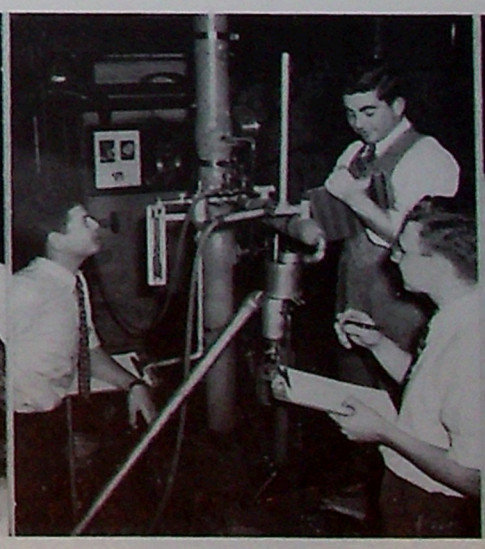
All of the members of this class are still amazed at dynamic "Whispering Herb" Roemmele's lectures. Though it isn't yet known whether it is the weight of the subject or Prof. Roemmele's forceful presentation, it is known that when

the bell rings, the class sits in a daze until someone breaks the spell about three minutes after the Prof. has left the room. Only once to our knowledge has someone failed to succumb to the mesmerizing spell cast, and beat Prof. Roemmele to the door in a fair getaway, and the man to claim this honor is Joe Deare (of course he had the unfair advantage of being closer to the door).

In compiling this yearbook, the staff photographers came across a few oddities in photographing this zany group. One picture was taken in the ME lab with the time for the next reading chalked on the board as 3:17 A.M. They always did say the lab periods were too long! Another photo taken during a Civilization exam, when developed, revealed what appeared to be a certain student assiduously studying another's exam paper. Not to mention names, but if you were Dave Young, would you copy from Howie Silfin?

The BRB, which by now is quite notorious, has expanded to a total of nine characters. It was at the ME Christmas Dinner that the BRB was finally given quasi-official recognition by being mentioned three times by Prof. Hope, the guest-of-honor. Other less fortunate individuals from the 3DME and other sections are striving to gain admittance to this highly exclusive group, but can't seem to fulfill all the requirements. Those who are crazy enough aren't 3DME's, a prime prerequisite, and those in the section who aren't already members just seem to have a few inhibitions too many.

In closing, Gus Rothmaler's classic rejoinder should be included. At the A.S.M.E. Annual Christmas Dinner, of which Dave Young and Eddie Greenberg were co-chairmen, Prof. Roemmele was given a megaphone to aid in being heard. When he said that he would be afraid to use the instrument, as he thought that he would drive someone out the door, Gus replied that he ought to use the thing reversibly!!



TO THE
LIBRARY
V. LIEBOWITZ

foundation

Freshman! Freshman—that really sounds like music to our ears. Many of us have been waiting a long time and now that we are here, we aim to take in all we can.

What do we first find upon entering Cooper Union's hallowed halls? We notice that Cooper Union has two groups of students: those with clean hands and those with dirty hands. Wait—I'm wrong! Sometimes the art students' hands are as clean as anybody else's at which time they refer to themselves as *architects*.

The utter frankness and open mindedness of art students is a wonder none can comprehend. They all knowingly admit that they know what they are about. It is true that they have goals and aspirations. But alas, these are so far out of reach that one must work blindfolded and let the laws of chance govern the final products of their labor. It is indeed wonderful to see the magnificent creations contrived by this method.

Within this group of artists there is a select society which only a special type of creator can enter. It is the Society for the Prevention of Cruelty to Art. Belonging to this sanctum are the very snobbish commercial artists. The S. P. C. A. has set as its main goal the destruction of the mad artist who spreads the disease of hydroabstractionobia. This has led to dissension in the art school ranks.

Opposing the aims of the S.P.C.A. is that *super* exclusive group which calls itself the Artists Federation for Liberal Contorted Impressions Organization. This group is made up of the fine arts students. The members of the A.F.L.C.I.O. are conducting a drive to ruin the commercial artists completely by refusing any form of retribution for the paintings they produce. Experts believe that this move will cause heavy casualties to both sides.

However, internal strife does not interfere with the ever gallant spirit of the art community. We can still find an S.P.C.A. student dancing with an A.F.L.-C.I.O. student every Tuesday night at 5:30.

The question nevertheless remains: What does a freshman think of Cooper life? One day while in the sixth floor lounge, we overheard several people, one of whom was a freshman, mumbling to themselves. Despite the fact that we are told it is impolite to eavesdrop, we listened in and took down the following conversation:

Freshman: You ask me for my history
I answer with profidity,
Yes, answer with profidity.
It starts at Cooper on the Square,
When alterations took place there.

All: Yes, alterations took place there.

Freshman: The work is hard but we're not complaining
Because on the side it's quite entertaining,
This sort of thing takes a great deal of training
But our love of this work will never start waning.

All: Oh banish your timidity
And with haste and rapidity
Just watch us and you'll notice
Our trip to invalidity.

Freshman: On one of the days there's a course about life,
Art for art's sake and nothing for vice.
Long, thin, short, fat, closely bound,
One guy always makes them round.
While another on the other hand,
Sees squares and prisms on the stand.
A beautiful maiden can't see the connection
'Twixt the model and M. & F.'s abstract perplexions.
In the midst of our work, the break is here,
And we all drop our paints and start rushing—

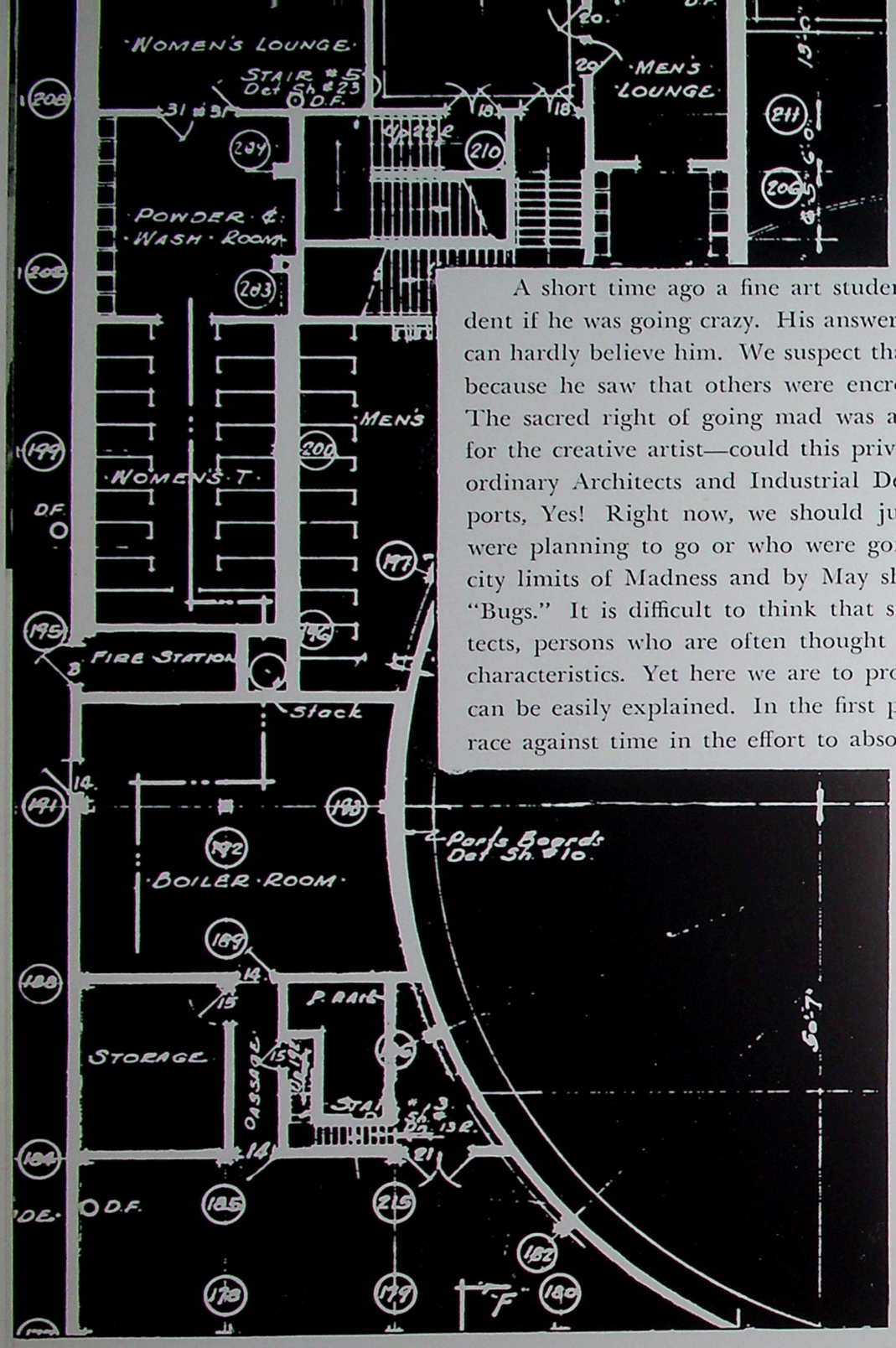
All: Where?

Freshman: To a bare floor and walls and a long wooden table,
Known as a lounge in many a fable.
Here nine of ten doctors heed the strange call,
That man's best friend is the longer Pall Mall.

Authors: We hope this writing you'll comprehend,
We can't think of more so this is the end.

And so you see the impressions left on a freshman after his initial study of The Cooper Union.

And now as the sun sinks behind John Wanamaker's we bid a fond farewell to dear old Cooper Union. We board our quaint subway trains and leave, for the day, this mecca of downtown Manhattan. Aloha!



A short time ago a fine art student was asked by an architecture student if he was going crazy. His answer was no, but since he is an artist we can hardly believe him. We suspect that he deliberately withheld the truth because he saw that others were encroaching upon his hallowed ground. The sacred right of going mad was a privilege once reserved exclusively for the creative artist—could this privilege be that common that even the ordinary Architects and Industrial Designers can enjoy it? From all reports, Yes! Right now, we should judge that the A.&I.D. students who were planning to go or who were going crazy, must by now be past the city limits of Madness and by May should be well on their way towards "Bugs." It is difficult to think that such a thing could happen to architects, persons who are often thought of as displaying stable and reliable characteristics. Yet here we are to prove it! Such a catastrophe, however, can be easily explained. In the first place it seems that we are running a race against time in the effort to absorb all the knowledge the course has

architectural and industrial design

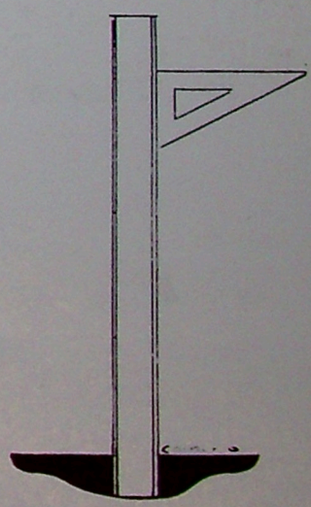
to offer. It is a tremendous undertaking, particularly for the brilliant student that wants to do a complete job. We have unfortunately discovered that of the nineteen students in the class, nineteen of us are brilliant! How can we deny it? As a consequence the class seems to run on the order of cut-throat competition.

Aside from the fact that all wear iron collars everyone remains up on their toes with their nose to the grindstone. The strain of this unnatural posture is terrific. Day and night the race of scheming up better ideas goes on. It manifests itself in a statement like the one overheard, "Yes it's a great idea, I figured it out while I was sleeping." There was even a student that confessed to the unpardonable sin of having the time to go to the movies. You can see that although we may be half-crazy, reeling and drugged from the loss of sleep we are always on the brink of genius.

Studying is not all work and we provide many diversions to keep ourselves amused. Take the game "jungle sounds" as an example. It is a wonderful way to relax, we are told, and requires absolutely no concentration. Inspired by the Marten & Olsa Johnson Borneo films we adapted the technique and it caught on like wild fire. Merely start with a small group and let each person imitate an animal or even three or four if he's capable. Lions, Yaks, Babboons, anything at all, and the result is, "breep—cheep cheep—ick ick ick—oich oich and baroop." Reverse the game into exciting twists such as hyenas and seals in distress. All we can say is that nature is wonderful.

We will not reveal the great inventor of "jungle sounds" nor the people that play it; we will, however, introduce the rank and file and let you judge for yourself. Take Herb Shalat for instance. Herb is still going strong and will get on his knees and play Jolson for you at the drop of a hat. He is happy as ever but a little worried about the talk going on of feeding the ulcers brought on by the pressure of work. He claims that there is an invisible person running about whispering, "It's better to be healthy." Others have heard it also. Al Rola doesn't seem to be bothered much as he strolls by smiling and with a copy of "The Architectural Forum" under his arm. We understand that someone once said unkindly that all walls have Rola's, but we know it to be a falsehood. Al keeps us happy when he plays his guitar and has become quite famous over the school broadcasting system—those little boxes that transmit to the Dean's office. Al Martin, however, is not looking for fame. He seems to be satisfied because he can sum up all the complicated aspects of giving an architectural criticism in a few words—"It doesn't bother me much."

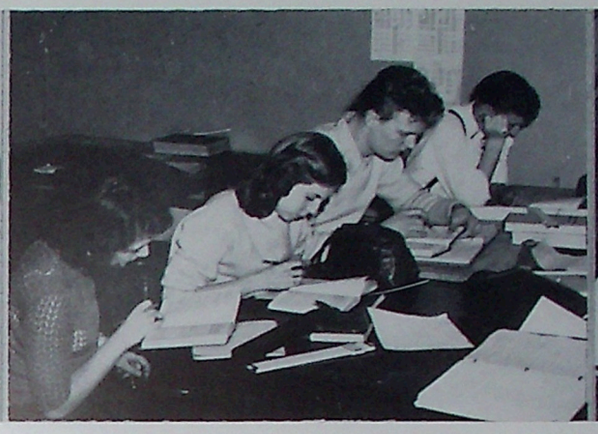
In addition to Al we boast of many more interesting students. From the exuberant happy-go-lucky Berny Rothzeid to our own, "young Dr. Malone," we are not to be outdone. There is patient Murray Goldstein, boy industrial designer, who is still mumbling something about waiting



for Mr. Stein . . . Harry Suriff who keeps us in suspense as the betting odds go up on whether or not he'll be in before nine forty-five . . . Eugene Jaffe who is so good we can't find anything to say about him . . . Andy Mitropoulos who is planning a coup d'etat of the A.D.I. with Vic De Nigris . . . Joe Rosen who we suspect operates very mysteriously under that smile and Guy Giordano who is still turning out swell poached eggs—or is it "ppshays" for Mr. Snow?

In contrast to these people we have Murray Miller and Tom Condit. Mr. Miller is not the gay carefree youth of last year—he's married now, which is something that is liable to happen to the best of us. Instructors, however, are still stunned and students fascinated when they hear that terrifying, booming voice say, "May I ask a question?" Tom, who is also fascinated by the voice, still continues to paint the most "Darlin' " ties on illustration board. It is an art he claims to have acquired during the thirties when he lost all those New Jersey night clubs in the crash. Speaking of losing things we are tempted to say a few words about Barney Berliner. Christened as the V.A. kid, Barney has become champion for us in matters pertaining to government legalities. Everytime he goes down to see Dr. Wren we lose a year and chalk up that much towards the time it will take us to graduate. Barney means well but we suspect that Dr. Wren can see him coming.

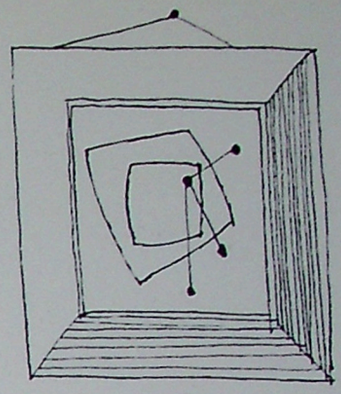
There is one person who loses no time at all and that is Dan Stewart, the mystery of the Sphinx. He is always to be found smiling and relaxed with his work completed weeks before anyone else. He lives in New Jersey and it has us stumped as to how he does it. Frank Havlik was also stumped. He was amazed to learn that everyone spent the week-ends doing homework. "That's sure a comforting thought," said Frank, "I thought all these guys were geniuses."



The greatest problem in the class belongs to Emanuel Mevorah. He wants to find out who it is that keeps putting bananas in his locker. We believe it to be some designer seeking revenge after having been refused a cigarette. We can hardly blame Mevorah for refusing as Chet Abend is a constant drain on his supply. Abend, the great experimenter of last year, is too busy convincing people of the worth of his experiments to be concerned with buying cigarettes. We believe it was he who invented a paint that adheres to air.

In general you can say that we are really very happy and it is doubtful whether we will all actually go mad. As long as we have Dr. Ehasz, the common man's Einstein, we will remain at the norm. We sincerely feel that our Frank, who dramatizes the course with board erasers, flying chalk and "one thousand jokes for every occasion," is the greatest engineer since Da Vinci. Everyone, we must admit, has made a brilliant effort to instruct us. Here we shall mention Mr. Allen and the valiant attempt he made. One day he tried to capture our interest in Emerson with such gusto that he almost ended on the floor gagging in a fit of ecstasy. With people like this behind us how can we miss? We predict the birth of a new Renaissance to take place in the architecture and industrial design class. Look Out!!!

fine and graphic arts



This school is filled with many people who think themselves artists, but actually few exist outside the Fine Art sections. Only a person devoting his life to fine art could develop that abstract abstraction of personality necessary for becoming an artiste. Other sections may have their comedians, their great guys, and their women—but we have our artistes.

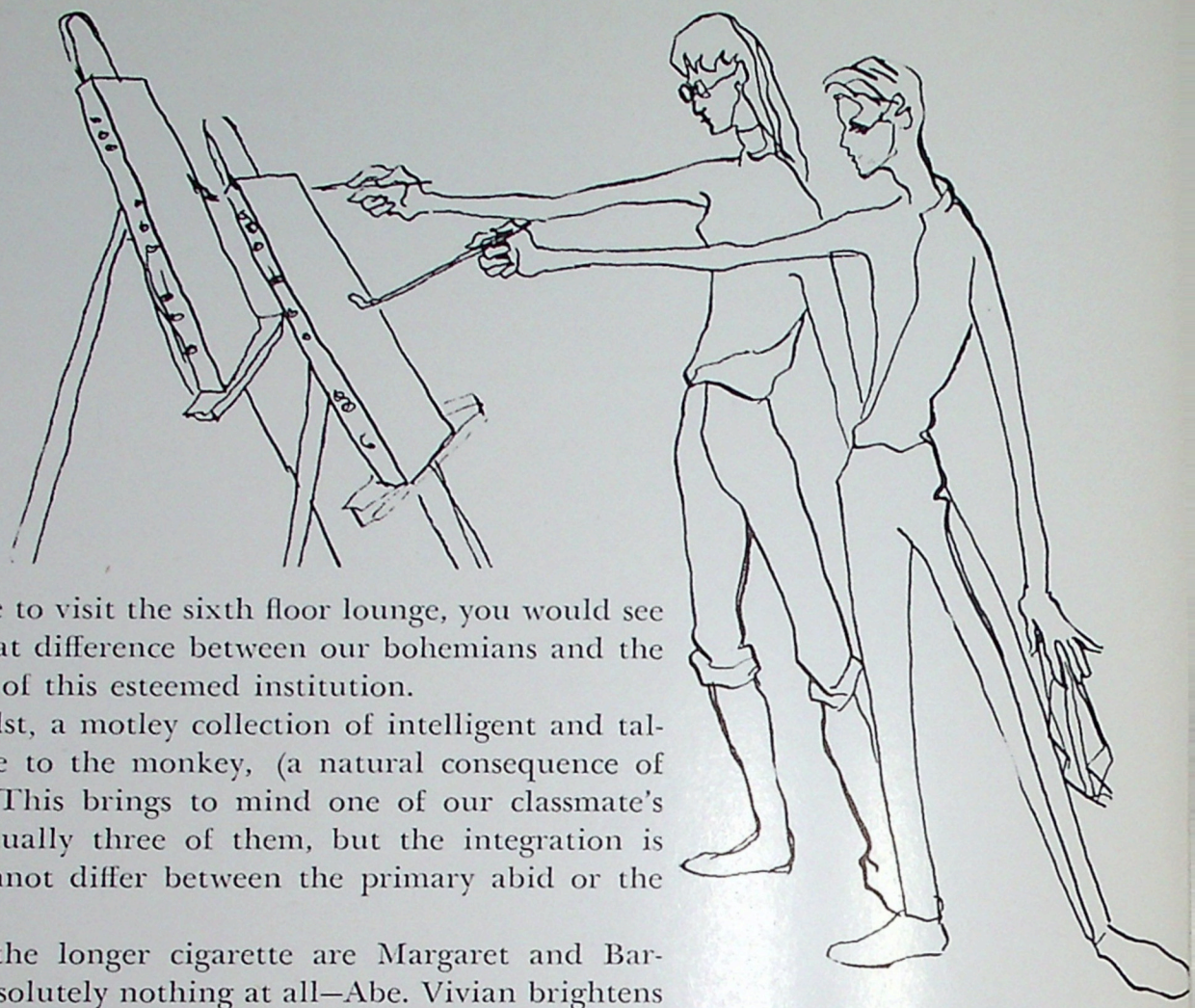
Sometimes the fine artists get hungry and we are forced to eat. This year, because of the excessive demands of many inconsiderate individuals, we have been forced to engage in extra curricular activities other than eating lunch. The transportation situation became one such focal point. The workmen engaged in remodeling the Foundation building had taken possession of the lift, and we had to take time out to convince them that we were members of the faculty or models so that we wouldn't muscle our legs like the common masses. What fair young art student with the initials Blanche Spiegelman, in order to spare her lily-white feet, swore by The English Heritage, Part II, that she was a model?

But there were other extra-curricular activities this year. With the completion of the Foundation course, the class parted ways, branching off into Fine Arts, Architecture, and Advertising. This division was marked by the fact that the advertising and architecture students adopted formal attire (white shirts, ties, and jackets) while the fine artists spent their time developing the "new" look, (blue jeans, fourteen inches from the floor).

However, a year at Cooper Union had not made complete artists of us, and our days at Green Camp were characterized by the behaviour one expects from adults. "No soap, radio"—poor Rita . . . and who "laid" the egg in Ruth Resnicow's bed?

Also, we will never forget the gatherings in Jo's place, or scaling seven unlit dusty flights up into the Nunnery; a knock at the door, a hearty push and a bottle of wine admitted one and all . . . or the time Professor Zucker asked (on the occasion of the epidemic of Cooper sweat shirts), "Why are you advertising the firm?"

It is only fitting that at the end of the school year a few presentations are made. For ourselves, the Fine Artists, we naturally have a garland of morning glories, to the Advertising Class, a specially built 14 karat gold filled croquill pen and for the Architects—"the best seat in the house" (refer to architect's manuals for the size and shape).



If you should chance to visit the sixth floor lounge, you would see as we have hinted, a great difference between our bohemians and the rest of the student body of this esteemed institution.

We have in our midst, a motley collection of intelligent and talented people comparable to the monkey, (a natural consequence of the evolution of man). This brings to mind one of our classmate's remarks, "There are actually three of them, but the integration is so absolute that you cannot differ between the primary abid or the aposteori."

Representatives of the longer cigarette are Margaret and Barbara and representing absolutely nothing at all—Abe. Vivian brightens the class when she is here while Bill brightens it even when he is absent! Politically we are represented by the ardent soap box reactionary, Stan, musically by Nancy with the lilting voice and Marilyn's harmonious monotone. And, of course, there is the enchantress Gloria, the main character in the case of "Mr. H. and Plaster in the eye."

In addition, there is Mutt and Jeff in the persons of Lucy and Edith. Edith also has attained fame by her curious and undisputed talent for emitting strange noises from the vicinity of her mouth. We must also mention our charming primitive, Jeanette, Meyer and Steve who will antagonize anyone for the sake of an argument—and the varsity's morale boosters, Winnie and Frankie, as they all joined the A.P. this year.

The veritable institution of marriage has few constituents in our clan but the two ardent protagonists are Ester, the lady with the red hair, and Mrs. Beal, the mainstay of the kitchen detail on our trip to Green Camp. And last, but not least is Hank (need more be said?).

That is our class (with the exception of Jo, Rita, Betty and Blanche who need no mention). A more prolific and versatile group can never be found. Versed in the art of the glib tongue, inventing alibies, and being generally general, they are bound to get nowhere fast. Subjectively speaking they are in a wonderful class, and don't think the class doesn't know it.

Thank God there's a night school and thank God the fine artists attending it work for a living. Why we eat, breathe, talk and even behave like other human beings. Now that we've completed a few years at Cooper, we not only *look* like art students, but we're even learning to paint.

Some people think that extra-curricular activities are just for day fine art students, but that has certainly been disproved. Several of the femmes even rented a bungalow called Artemis Lodge for the summer at the shore—imagine twelve women under one roof and not a single squabble! We also started the year off with a bang by running a successful Sadie Hawkins dance. The excuse has gone, but the gals are still chasing the men! Heh heh—smug, aren't we!

Naturally, there were some who dropped out of the running. Shirley Radin completely ignored our (to quote Professor Shaw) "famous matrimonial bureau" and became engaged to a Pratt man, the traitor; but Jackie Eisenberg, forever faithful to Cooper Union, has attached her loyalty to a 4th year architect student, Bernard Burg.

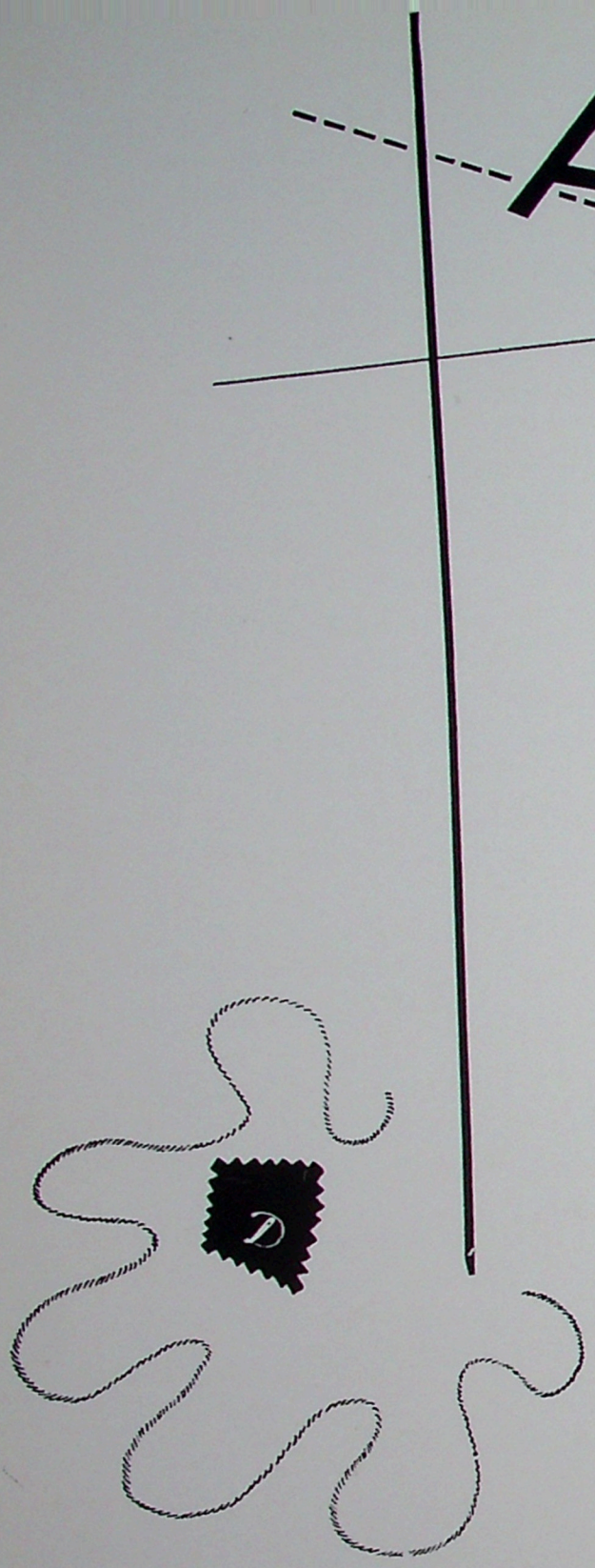
What fun, working eight hours a day, gulping supper, and dashing off to class every night, followed by parties, outings, and more parties every weekend. Not that it's in the least bit fatiguing, but oh! for a 48-hour day! That would mean 24 hours of sleep (as suggested by Jack Reid, smart man), and then we wouldn't risk staggering into school and being ousted by some misunderstanding upper-classman.

Green Camp is not to be forgotten, fellow artists. Wonderful, isn't it? Those of us who were fortunate enough to be able to take a trip there, found, aside from its inspiring beauty, a way to relax completely. That is if you weren't tobogganing, playing baseball, football or eating. Ahhhhh—to be lounging in front of that wondrous fireplace with about twenty or more odd bodies sprawled around. But more about us!

In the middle of the year, we opened our arms to welcome three latecomers —Jo Katz, Claire Solomon, and Diana Ferrando who insists that she can stay in class all period without Joey Boy. We don't agree, but so what. We love them both.

What a pleasant surprise to see Betsy Tyree's beaming face in PM every couple of days. She can model for us F.A.'s any time. In fact, so can Dimitrius, who is the handsomest guy in the world, in the country, er well, at least in our class.

This is the year that the one-year old Lambda Frau died a slow death. Poor Carol Glass never did get initiated. The only important thing it accomplished was a "Smooch Sam Smookler" week. In spite of relative failure, greater success for this institution is predicted for the future—no slight meant to Sam.



Our returning fashion-plates found that theirs was not the only framework that had acquired a "new look." Cooper had undergone a face lifting during the summer months and there were many changes that were slightly bewildering at first and many that continued to be so for many months.

We found a vicious rival for the affections of our unique elevator in a group of dirt-filled wheel barrows. The fellows took their best blarney and put it into use; the girls, their sweetest smiles and the war for possession of the elevator began. (Surely we have more personality than a sloppy mass of wet cement!) After the first week or so, the elevator operators caught on to all the angles and it wasn't an oddity to find empty coke bottles, cigarette smoke, the swearing of poker and the silence of chess in rooms along the first floor.

During our initiation into second year Day there was a mad shuffle between 2C-1 and 2C-2 to compare teachers and class procedure. What this folly was to accomplish, few frustrated Jr. Rands and Lustigs could say. We "cased" each proposition and laid our foundations for the year's work. Little "Schutzie" designs blossomed forth in 2C-2 under the guiding eye of our most talked about feminine figure around school. Monday became a frustrating bout with numerous "thirty by fortys" for Mr. Busa's students. But let it never be said that we ever lost our respect for these monstrous specimens, although one could hear the most colorful language drifting from 702 on these days.

advertising and decorative arts

The "Whiffenpoof Song" might well be adopted by the harried advertising students as their battle hymn. These lambs were abandoned periodically and found it "difficult" adjusting to each new instructor (to use polite language). Meanwhile the ominous rumble emanating from 106 was just the warm reception of Mr. Marein's protegees in chisel point lettering and pencil tracing techniques. Fond of body and limb (all in one package) Mr. Marein launched into an interesting problem of abstract form and their influence in advertising layout. There was also the day that a sign appeared which stated that, "Mr. Marein has changed to Buckeye because Buckeye is cheaper," signed "A. Hack" (that fellow didn't want an A anyway).

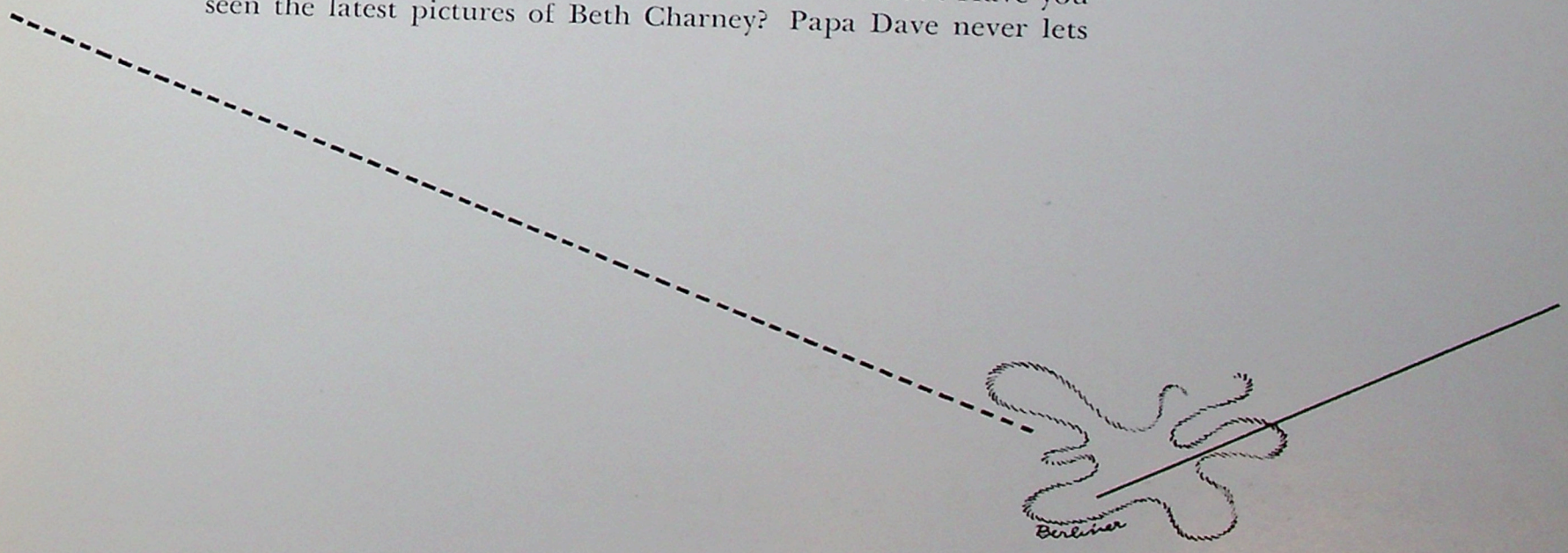
The sighs that followed Mr. Nardin through the halls were well deserved by this handsome new addition to the art faculty. We found him to be an excellent Graphic Design instructor as well which made him a welcome asset to the school.

You could invariably find a few truants from Mr. Filmus' class kibitzing among the easels in Mr. Mangravite's room and a few victims retaliating.

Does anyone know how many trips Fred, Bill, Joe, and Marty made to McDan's and McSorley's a day? There must have been some reason they sing the way they do. Speaking of this influence, who started the snake eyes fad in the sixth floor lounge?

After a while we all acquired that longing, haggard why-did-we-take-advertising-anyhow look from the burden of homework. It didn't seem to interfere with our trip to Green Camp in December where the question of the hour was "Why is John Seneres so bored with Green Camp?"

We began to wonder how many laurels Dick Hubsch and Marty Giurico can trade with Don Miller and Bill Farr in advertising. It seems to be a mad race. . . . Need a demonstration in heating a cold studio? Just ask the master—Danny Woskoff! It won't be long before the hard work starts paying off and that should make Gene Crugnola admit it was worth it. . . . Have you seen the latest pictures of Beth Charney? Papa Dave never lets



those snapshots get dusty, and the little terror looks like a chip off the old block. The place is infested with proud papas, Git Huie having joined the tribe last summer.

Speaking of tribes—that cute miss, Mary O'Keefe, certainly had full reign over 2C2 being the only brave damsel in the class. . . . Why not propose a resolution to the student council retaining Marv Wax's group for lounge entertainment? We certainly need inspiration, although with the example set by "mad-man Dubitsky," do we need any more?

The man to watch is Al Templeton—the fellow is brimming with talent. . . . No one can seem to imagine why Ralph Hinchman and Lil Silverberg have that frustrated creative design look after a day with Mr. Busa.

Our class would not be exactly the same without our problem child, Maxine Fields. Really, we ought to buy a leash for her and take turns walking her around the school. It seems everyone takes advantage of her poor easy-to-look-at personality. Sorry fellows, she doesn't go out with Cooper engineers any more. We heard her say it a dozen times.

It's surprising how fast the year has gone by. In between deadlines, we sifted our philosophy and English notes, stacked our better advertising, graphic design, and lettering problems in a hopeful portfolio, hid our canvases, and prepared our drawing tables for our senior year.

Don't be misled. All this time, there was another group in Cooper aspiring to be advertising graduates, known as the Night advertising classes. We consist of clerical workers, ditch diggers, garage caretakers, and unemployed artists—mainly the latter.

Gee, it's wonderful to be a sophomore and have new classes such as Graphic Design and Lettering (some students still call it Printing). Thanks to this last class, Rae Magasiner learned how to write and now goes around writing notes on the bulletin board—there's no stopping her.

Next to school, the most important thing in life to us is a job, and next to jobs, the most important thing in school is work—not because the *Daily Worker* advocates butter on our bread but because we don't like Oleomargarine.

We have remarkable talent and striving young artists. We have an assistant to an assistant art manager (sharpens pencils), Jack Hammer, who works all day long on an idea and finally brings it up to his Lady Boss who looks it over very critically and says: "I'm glad I thought of it."

A peek at our married folks, and we see Paul and Elsie (Bear) Blumenfeld matching talents side by side in class, and using the same paint box. Now, isn't that sweet? Almost as nice as the baby boy they had last January.

Homer Hansen travels to school on bicycle. It's not only economical but also invigorating exercise. Mr. Willard told him (during the snowy season) "Put away your reindeers, Santa, and come in to class." Mr. Ex had a birthday party for son, aged 3. A peek at the goodies discloses: gin, rum, wine, whisky, and beer. The beer was for the kiddies.

When a dashing, handsome, eligible young man such as Norman happens to be in our class, Valentines usually come flying from all corners. This year the gals were mercenary. They all chipped in and bought him one great big one.

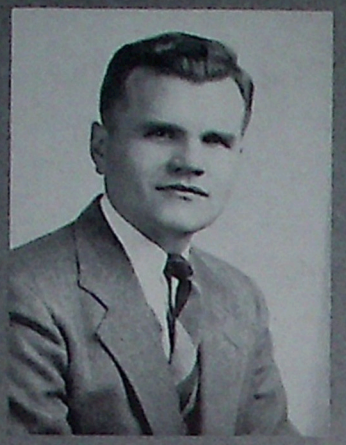
When we're not busy producing masterpieces, we gather and smother in smoke, spill sugar into mustard and salt into pepper at no other than our beloved Cafeteria. In a momentous outburst of artistic temperament Tom Nowak will take out a pencil and with masterful strokes he will scribble on the back of a check the idea that struck him. One day the cashier found this out and asked him in a serious tone, "Son, why don't you take up art?" This idea enraptured us and we spent the rest of the year thinking about it.

Graduates

V. LIEBOWITZ

Jo Accolla

Sherry Adler



Tore Anderson

Al Arena

Dan Arje

Ginny Barnes

Stan Becker

Gloria Benedetti

JOSEPHINE R. ACCOLLA. Dark, svelte, and industrious, Jo puts in long hours in a furniture establishment while attending school at night. Her quietness belies her great potential energy. She is very handy at sewing, a good thing in her particular line, as well as saving on the clothing budget. SHIRLEY ADLER. Sherry has a beautiful husband (Cooper Union vintage), a beautiful "Village" apartment and a beautiful kitten. She met both husband and kitten at Green Camp. One of Advertising Art's best students, she directs the campaigns for a large candy manufacturer during the day. TORE N. ANDERSON. Quiet and mature Tore, a member of Tau Beta Pi, shows good all-around executive ability. He spent three and a half years in the U. S. Army Corps of Engineers as a first lieutenant, in charge of a laboratory of the Applied Electronics branch of The Engineer Board. ALFRED ARENA. Al, a very industrious member of the Evening Mechanical Engineering Course, built up quite a reputation as the Mickey Rooney of the Class. With Al around there was never a dull moment. DANIEL ARJE was the winner of the award for advertising in 1947. He is known for his originality in clothes, especially his keen shirts! Danny's too good to be true, talented, punctual, hard working, and neat. Argo appeared quiet until we got to know both him and his sense of humor, but boy, what a stasis! VIRGINIA F. BARNES. She is just a normal girl, who likes to putter around her family photo album and draw pretty ladies. Virginia is working toward a career in fashion illustration. STANLEY J. BECKER. Stan, whose tongue is as conspicuous as his cigarette holders, probably considers his trip to Atlantic City the worst disappointment of his stay at Cooper. Oh, the technical speeches were all right, but after all, he had heard so much about Atlantic City. GLORIA BENEDETTI. A "big little girl," Gloria's interests, other than painting, are mainly skiing and hosteling. Her classmates will always identify her in her usual garb of an oversized sweat shirt, blue jeans, and gigantic ski socks. She was often found painting from a squatting or sitting position on the floor.

DANIEL BERGER. Dan professes a liking for hiking and handball, but seemed to expend all his energy about school trying to convert his classmates to the cause of liberalism. He was very active in the *AVC* and served on the Veterans Affairs committee. Dan showed all the talents of a used car dealer, in trying to dispose of his family's '37 Plymouth. SAUL BERLINER. Ambitious "Shep" was the accumulatin'est gent in 3C2; he saved bits of textures, plaids, bugs, feathers and heaven knows what. He also collected tired broken down jokes * * but he smiled as he told them, so we forgave and tried to forget. LAURA BERMAN. Best known by the husband she keeps and who attends school with her. They work together, go to school together, — and we don't blame them for liking each other, because they're both of them very nice people. Laura and Sam are also the parents of a beautiful one ton Studebaker. SAMSON BERMAN. The best thing about this fellow is his wife, Laura, the class is all agreed. But any time you see the compacts he designs for his employer, a manufacturer of metal products, be prepared for an exciting experience. FANNY D. BICKART. An airy voice and a hearty laugh are the distinguishing characteristics of Fanny, the other half of the Fanny-Mimi duo. She completely hides her more serious self in a most informal and fascinating personality. WALTER BIER is known by a variety of names such as "foxhead" or "3.2" but these titles which fit his surname appropriately actually cloak his real personality. Walter is probably the most studious of the power EE's. If success is determined by study, Walter should go a long way. EDITH BLUM. Pin a medal on her — she did it . . . she caught her man, an engineer besides. Her household experience certainly comes in handy when she polishes the dark room in photography class. Pert and pretty, she broke many a man's heart when she dropped from Cooper's "eligibles." Her occupation? Blowing bubbles for Colgate Co. ABRAHAM BLUMBERG. Yanked from the senior class by the Army in 1945, "Honest" Abe returned last September to see a man about a degree. Much admired for his hustling in the drawing class, Abe is a member of Tau Beta Pi and a former officer of the ASCE. When last seen, he was holding down a job as (natch) a draftsman and making eyes at the boss' daughter.

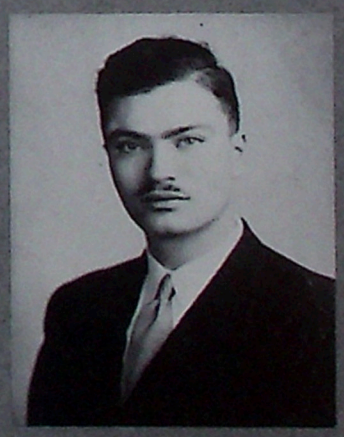
Dan Berger

Saul Berliner

Laura Berman

Sam Berman

Fanny Bickart



Walter Bier

Edie Blum

Abe Blumberg

Syd Blumer

Nat Boland

Jonathan Boretz

Murray Bornstein

Tommy Boutis

Bob Boyens

Ralph Braca

Diana Brazin

SYDNEY S. BLUMER. Sid is ambitious and smart, and most likely to succeed in his goal of being a top-flight architect. He has always worked very hard and applied himself assiduously to his work. NATALIE BOLAND. Nat is one of the commuters from New Jersey, and she is actually willing to defend the place. Among the artists she has the reputation of being a swell kid, and very definitely a budding artist. JONATHAN BORETZ. John has picked up the name of Machine Gun Boretz, and nobody knows quite where. He had the whole graduating class of night Mechanical Engineers a-twitter anticipating his blessed event. MURRAY BORNSTEIN. Graduating with his original class (a feat not accomplished by many), Yarrum (less backward than his name) piled up an impressive record as *PIONEER* co-editor, *ASCE* secretary, and Tau Beta Pi man. As a flute soloist (he calls it a recorder) he will probably be a good engineer. The late (nearly always) MSB intends to do graduate work in a warmer climate. THOMAS BOUTIS. "Es as Elinas!" Assistant assistant manager of the varsity basketball team, Tommy's love for sports almost meets with his appetite for food and women. After a year of Advertising Design, he switched to Decorative Arts, where he held his own with his original ideas and less homework. ROBERT D. BOYENS. "Bugs" Boyens, otherwise known as Lamont the Shadow, has been marked absent in many classes for his orientation in space. The silent partner of the firm of Durbin and Boyens was the first president of *SKT*. He is starting to fulfill his ambition of being a television engineer by starting his career with Hazeltine Electronics Corp. RAPHAEL M. BRACA. This night Chemical Engineer, a member of *LSK*, was frequently late to class due to the periodic torpedoing of the Staten Island ferry by enemy submarines. However, since the cessation of hostilities, Ralph has had no excuse. He was noted for his "expertness" in Thermodynamics, because of the meteorology background that he picked up while in the Army. DIANA BRAZIN. This quiet girl with the placid smile has the mildest of temperaments. But as they say, still water runs deep — and who knows? Diana, unlike her namesake of the hunt, is usually armed with a fat book on psychology or the like.

WILLIAM C. BRODERICK. The lucky girl that married Bill, caught a good student with reddish hair, a responsible position and a reputation for dramatic conferences with one of the faculty. He is one-quarter of the Big Four, and a member of Tau Beta Pi. EDWIN BRODKIN. Eddie and "Kiki" became Mr. & Mrs. last June and are still looking for a place to rest their weary bones after graduation. Anyone know of a good apartment where Ed can hang his clothes and "Kiki" her paintings? ELAINE LEIB BRODKIN. Kiki's world revolves about her husband, Eddie, also from Cooper. She's another student from New Jersey who has taken root in New York. JOHN PETER BROKER. John is the only unmarried man in the night *CE* group but like all the other *CE*'s is a veteran. This sheds some light on the fact that he started in Cooper about a decade ago. John will be remembered for his ribbing of Garrison and Erlemann about losing their hair. "Hairless" Broker (g)nashed his teeth for two years waiting for a new Nash. He works as an engineer in the structural steel department of Ryerson Steel Co. PAULA BRUNNER. Czechoslovakian-born, she recently won second prize in a beauty contest. Paula has seen Switzerland, Mexico and California. A lover of skiing, folk dancing and taking long walks, though she spends a good deal of her spare time in art galleries. ALTA BUTKUS. A native of Bucks County, Pennsylvania who left school before graduation to tie the matrimonial knot. Alta was considered by the Evening Fine Art students to be a wonderful girl in mind, thought and deed. The Night Art graduates are all sorry that she's not here to graduate with all of the students who admired her. LOWELL CADY. Lowell is interested in two things, sex and jazz. He also studies architecture in his spare time. A traveler who is a long way from his native Arkansas, he is known among the day artists for the dapper clothes he wears, especially his bright red shirts. MURRAY CASSLER. The lady-killer of the class, he takes a different girl home each night. Murray lives in a settlement house, and is doing excellent silk-screen posters for them, while working on a job and going to school at night. A real ambitious lad, and a real culture vulture, he may be heard warbling arias from opera. However, his true love is folk music.

Bill Broderick

Eddie Brodkin

Kiki Brodkin

John Broker

Paula Brunner

Alta Butkus

Lowell Cady

Murray Cassler

Frank Cetta

Leon Chavkin

Roz Chester

Hazel Childs

John Ciampaglia

Dale Clark

Margery Clift

Herman Cohen

FRANK T. CETTA. Gad, how he'd love to be a ladies' man! Now he's our hero—he sold a painting. LEON CHAVKIN. Quiet, red-haired Leo made up for his silence by being active in intramural sports, *The Pioneer,* and fraternal life with *LSK*. The silent one, as chairman of the committee, was largely responsible for the success of the Senior Prom held at the Hotel Astor. The *EE*'s will especially remember the cries of "Speak up, Chavkin" whenever Leo had something to say. ROSALYN CHESTER. One of the more quiet members of her class, Rosalyn hopes to settle down to the domestic life after leaving Cooper. Would like to teach creative design. Likes horseback riding, bicycling, and swimming. Would forsake display field for textiles. HAZEL CHILDS. Everyone likes Hazel, for to know her is to love her. Always a friend, Hazel has a willing hand and good word for all, not forgetting her pleasing personality. Lucky Roy! JOHN EDWARD CIAMPAGLIA. Jack is the mystery man; nobody seems to know very much about him except that he is interested in sports in general and baseball and tennis in particular. He probably was never in the Infantry because he spends most of his spare time in summer hiking. DALE CLARK. This boy from Idaho read a book on industrial design and came East to go to Cooper Union. He now has his own outfit as well as a pretty little wife and reams of ambitious plans. He puts his heart and soul into his work, working himself extremely hard. He and his bride plan to take a long trip after graduation since they have always wanted to travel, possibly around the world. MARGERY CLIFT. A fine artist who has finally reached the culmination of her happy days at Cooper Union. Modest Margie is quiet in herself but eloquent in her work. HERMA COHEN is a member of the *Pioneer* staff, Sadie Hawkins Day and Masquerade Ball Committees, Lambda Frau, Artemis Lodge, and The League for the Prevention of Alphonse Normandia. She is a frustrated writer who also believes that her painting show signs of genius. Has a passion for people equipped with quips.

JEAN COHEN. Jeannie with the curley brown hair is indeed fortunate to have been bestowed with so pleasing a personality. She divided her time equally between third and second year, with her heart mostly in the latter! HAROLD COMERRO. Our ex-flying, industrious architecture student from Jersey proved himself an eloquent orator, as well as a McSorley fan and a talented artist, Nurse Jane is included in Ace's future plans. A friendly person to all, we'll long remember Ace's sincere smile. ILONA P. CONKLING. Having completed four full years at Cooper, Ilona hopes to find her place in the Fine Art Field. If silence were golden, she would be richer than the Rockefellers, but while others chatter, she is getting things done. WILLIAM CONKLING. A fine art student who studies at Cooper evenings. Bill doesn't care much for women, other than Ilona, that is. HOWARD CONSTANTIN. Tall, dark, and unassuming, Howard has intentions of establishing his own industrial design office. He knows loads about plastics and machine methods. A veteran of the Navy, he came back to school last year and has been coming up with some excellent and practical ideas. He is married and, from what he says, his wife is giving him a great deal of moral support on his latest venture. LEONORA COOPER. Here comes Lee, a-chuggin' in on the Stamford Limited, a charter member of the Time-Table-of-the-Month Club, an undauntable Bridge devotee and a friend to all. C.U.'s Connecticut Curley Top has spent many an hour en route to and from school — she and we say that it was worth it. SILUS HARRY COOPER. No relation to Peter, but you wouldn't know it, he's been around here so long. As Treasurer of Tau Beta Pi he acquired a reputation for taking care of other people's dough. A little hard of hearing — keeps repeating "Lend me your good ear." LOUISE CUDDIHY. To all appearances, Louis is a quiet, serious student, who gets out a steady stream of good work. However, among her circle of friends, it is her merry wit that keeps the party going.

Jean Cohen

Harold Comerro

Lonnie Conkling

Bill Conkling

Howie Constantin

Leanora Cooper

Silus Cooper

Lou Cuddihy

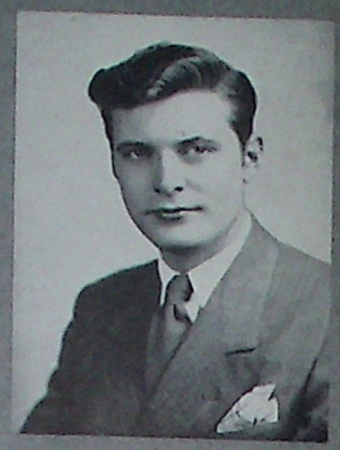
RICHARD CUMMINGS. The Boy Art Director of Paul Rand, Inc. His brown paintings were cut with surgical precision into nice brown rectangles which developed into smaller brown rectangles. Marsicano and Dick have an understanding. All phases of advertising interest him, fashion, etc., etc., etc. ARTHUR E. DAWSON is known variously as "The Class Shorty," "Curly," or " Gabe' Rullo's Twin." He can always be relied upon as a candidate for a short (but not too short) beer after classes. He likes music, literature, fishing, and people with a philosophical sense of humor. STANLEY R. DEMBOSKY. A night *ME* who has ventured through six years of school without even sleeping through a class. A hard worker who knows his entropy, enthalpy, energy, and thermometry. CARMEN DI BLASI. You'd never know that this charming, unassuming girl has the mind of a successful business woman — besides being the mother of a fourteen year old daughter. Her paintings are deeply sincere and words of admiration will cause a gratifying blush. ANNETTE DICK. Look out Frank Wright. Here comes competition in the form (and a pretty good form too) of Annette, our Brooklyn Architect. Words are indescribable. Magnificent, charming, beautiful, intelligent, and a glorious sense of humor. FERDINAND P. DIEMER managed to put in thirty hours of work each day. That is the only possible explanation because he has a responsible job, goes to school at night, and still is able to be president of the Night Student Council and the Night Division of the *AIEE*, Grand Master of *PSO*, besides belonging to *IRE* and the Newman Club. In his spare time he assisted in the senior write-ups of the Night Engineers for the *Cable*. DOLORES D'INZILLO is extremely quiet and sweet. Half of the time you'd never know she was there for all the noise she makes. She gets along easily with one and all. It goes without saying that she is a good artist. EDITH DISTEL. Pretty, blonde, and glamourous Edie plans to continue painting and to marry the handsome young man who almost kept a nightly vigil in the lounge while she attended classes during almost the entire senior term. She would like to work in the textile field and someday plans to visit France.

BERNARDINE M. DI YULIO. She's the kid from Rochester, who's interested in stage sets and wears colored wool stockings. Attractive Bernie always seems to have a ready smile and sympathetic ear for the intellects. LOIS DODD is a very attractive, fine artist who didn't enjoy architecture (but who did?). Long john-jeaned Dodd from Joisey eats raw carrots and other vitamin saturated foods. She is completely absorbed in her decorative arts with one major exception, and his name is Bill King. FRANCES E. DOW is so much interested in the graphic arts that she put her time in at night to study. Besides artistic ability, she has the knack of having men around her in droves. Frances has done exceptionally well in her three years at Cooper. Her graduation will be Cooper's loss. BRUNHILDE DRUCKER. If ever a name fitted a person, here is the best example yet. Built along the lines of the best Wagnerian tradition, buxom Bruni may be often heard "la-la-ing" along the hall. Sister to a famous violinist, she is no slouch when it comes to fame, having won many prizes at the *ILGWU* painting school. EDWARD DURBIN. Ed seems to have a lot of influence in the Admissions Office. His classes don't end until five pee-em in Room 206-F. Charter member of Sigma Kappa Tau and its second president. He was under water for two years as an American Red Cross swimming instructor and came up finally during his senior year. ARTHUR EDELSTEIN. Artie has a job-hunting complex. About all he can put down is "Situation wanted. Engineer with brand new degree seeks suitable position." Salary commensurate? How about starting for a hill of beans? HENRY J. EGEN Jr. As a hard working Night *ME*, he found time to participate in the *ASME* and *PSO* Fraternity. A conscientious student, Hank believes inthe formula "data before dates." Nonetheless, he was actively interested in parties, dances, and sports. SEYMOUR EIDELMAN. Sid, who changed to day school in third year, has a mature outlook which encompasses more than just three dimensional design. He works hard and deserves all the success in the world. Too late girls, he's married!

Victor Engle

David Epstein

Gustav Erlemann



Charles Erler

Hank Falk

Shirley Fenrow

Carl Fischer

Elliot Fischer

VICTOR ENGLE. Vic was one of the three rings of the circus of the same number of rings, better known as electronics laboratory squad number one. Hashmall and Hillman were the other two members. Vic, who is extremely quiet, was voted to be the "most shy" man in the senior class. DAVID P. EPSTEIN. Dave was loved by the entire Day Art School, and was known as the darling of the Bronx. Besides being a top-notch advertising student, this member of Cooper Union's "Big Three" is good natured, always willing to do a favor, and has a swell disposition. His aim in life is — "Hey Rand, sharpen these pencils!" GUSTAV G. ERLEMANN. Gus, a married member of the decade club of the night *C.E.*s' was very proud of his brand new apartment in Stuyvesant Town. Erlemann has a bachelor's degree in meteorology from N.Y.U., '43. CHARLES R. ERLER. Chaz, who is equally interested in the Brooklyn Dodgers and good music, has been classified as the Adonis of the Night Art School. His art work is wonderful, and someday his classmates will think back and say, "We knew him when." HENRY FALK. Ever hear a man rave about married life after five years of it? Well, Hank is living proof. Henry, one of the best natured guy's ever encountered, what with being busy with war-work and school, is all for it. And he has a little boy at home for further proof. Practical as they come, with a good sense of design, he is always willing to lend a helping hand to all the struggling classmates around him. SHIRLEY FENROW. The squirrels and Miss Braverman always race for her walnut lunch, and the squirrels and Shirley always lose. Sweet and unassuming Shearsilearsy smiles to all comers beneath those light brown bangs of hers. CARL M. FISCHER. Take a square layout, a gold pencil, one big letter, and one white page, and Carl Fischer results. If not an art director, he'll write a play for Cooper and Broadway, or debate a debate. Besides being busy with the above mentioned he has maintained an active interest in school affairs. ELLIOTT FISCHER. Elliott is one of those conscientious people who, though he had to work during the day, attended Cooper Union at night in order to obtain an education and a degree in Mechanical Engineering. His efforts were divided between his job and his education so that he had time for little else.

LESTER FINK. Lester first came to Cooper as a dazed freshman two years ago, and he hasn't changed a bit since. Likeable, but gullible, little Lester cavorted about the pages of the *PIONEER* with the weirdest collection of characters ever captured by pen and ink. He was ever frustrated, especially when it came to "Geeping," a word which he incidentally introduced into the Cooper vocabulary. MARILYN FOX. a graduate of Day Art, 3B1. JOSE FUMERO. José, the most artistic looking of all art students, has been president of the Day Art School for the past two years and the spiciest cook ever to hit Camp Green. It can't be definitely stated whether his work suffered, or was improved, by the influx of females into his apartment last year, but it did give him an opportunity to at least sound like a boy-type Casanova. PANOS GALIDAS. This man who commanded the respect and admiration of the entire school was President of both his class and the Student Council, and will long be remembered for his unselfish efforts in creating a new school constitution. A huge head, heart of gold, affable personality, and a long bowling stride were Panos' salient points. He was most frequently seen ingesting coffee at Adler's with his buddy White. SIDNEY GANELES. The Rube Goldberg of the class, Sid often makes his things work. He is possessed of a vivid imagination, specializing one year in children's toys with great success. His two children may have had something to do with it, and he claimed that they did his homework. As the class rhetorician nothing could be put over him verbally. For valentines, and other types of greeting cards, with a fresh approach, Sidney is the man to see. ANTHONY GARGAGLIANO. Tony is another devotee of the McSorley circle and is thus recognized among the male element. Among the girls however, he is known for his wonderful dancing. Tony spent some time, as did several million other boys, in China and has many interesting and amusing incidents to relate. WALTER E. GARRISON. Walt, the third of the night Civil Engineer's decade club, is a member of Tau Beta Pi and *ODP*. He is the very proud owner of a nice new Oldsmobile. Garrison has garnered the reputation of being a crackerjack estimator for the American Cyanimid Co. HARRIET GELBER. Harriet is a person with great natural artistic ability who hails from Hackensack. One of the most truly aesthetic students, she is a true patron of the arts with a sincere interest in people.

Lester Fink

Marilyn Fox

José Fumero

Panos Galidas

Sid Ganeles

Tony Gargagliano

Walter Garrison

Harry Gelber

Rube Gelles

Charlie Gilvarg

Marv Glass

Irwin Glusker

Jacob Gold

June Goldstein

Al Greenberg

Elgee Greenberg

RUBIN GELLES. Don't fight girls! – there's enough for all. He's got twice as much as any other fellow; humor and charm besides being a perfect gentleman. Someday his classmates will reminisce and say "I knew him when," for apparently it is written in the books that "Here cometh another genius!" CHARLES GILVARG. Uncle Charlie's more noted achievements include an A in organic and the ability to win arguments with Prof. Peterson. Charlie was the mainstay of the Semester 8 Chowder and Marching Society and another of the noontime bridge fiends. A friend of wild women, his tales of New Guinea and the South Pacific also left the rest of the class speechless. MARVIN GLASS. Tall, dark and curly Giggles specialized in religious and weird-faced paintings. An ex-mob leader from Chicago, his studio, amongst other things, is well known as an opium den. Despite all he is a darn good artist. IRWIN GLUSKER. The stage crew listened to Irwin while he listed to music, and the result was some terrific stage sets. Irwin, truly a "boy genius," is tall, dark and talented; he paints, advertises, designs, builds sets, and he can fix radios too. JACOB GOLD. Jake is a former Army Air Forces navigator who stumbled off his course, and came to Cooper where he became hopelessly lost. He decided to stay and studied Electrical Engineering at night while trying to become better oriented. To help him get his bearings he joined the *AIEE*. JUNE R. GOLDSTEIN. "Goon," as she was sometimes affectionately called, was a spoke in the big wheel of the *A.P.* whose fingernail was dipped into many pots of activity. She took quite a razzing from 3C2, but they claim they love her despite the teasing. G.J. has come through three years of "the office," and despite the best efforts of *BRB* she has survived, unscathed by the strain. ALBERT GREENBERG. Assistant manager of the varsity basketball team, sports writer for the Pioneer and a successful advertising student in his spare time. Al still had time for his loves, which included the Dodgers, steak, beer and Marilyn. His only dislike is leaving Cooper where he spent many happy years. ELEANOR GREENBERG. Ellie delights in watching the different kinds of people living and working around her. A student of Fine Arts at night, she didn't have much time for extra-curricular activities, but was none-the-less popular among her classmates.

HAROLD GROSSMAN. A large part of Hal's years at Cooper were spent slaving away in the *Cable* office, where he worked as Editor-in-Chief and Photography Editor. He is the proud owner of the Ex Post Facto key, and both the Gold and Silver "C." While his main interest is photography, his aim in life is "To be Art Director of Harper's Bazaar or bust!" MAURICE L. HASHMALL. Pop, who is also a member of the infamous electronics laboratory squad number one, originally started Cooper fourteen years ago, and has finally been liberated. He claims that the four years that he spent in the Army were much easier than the time spent at Cooper. Of the many facets of school life, Maurice will miss the G.I. Bill more than any other. HENRY C. HAUSMANN, a member of Tau Beta Pi, is undoubtedly the most efficient student in the senior class. Henry consistently had his reports completed the day after they're performed. It is because of this trait that he is affectionately known by his classmates as "Henry the Hustler." MIRIAM C. HAUSMAN. This smiling miss from out Flatbush way has spent four busy but happy years lost among the curricula of the Night Art Advertising courses. She constitutes the other half of the "Fanny" "Mimi" duo, and is known for her ready smile, and her sparkling talent. WILLIAM G. HAYNES, JR. Georgia's peach came up hyar to Cooper from Darien, Ga., the South that is, son, to become the Mozart of the paintbrush. His work betrays a delicate nature and style. LOTTE HEILBRUNN. Besides being a talented advertising student with a flair for painting, Lotte was interested in the Literary Club, of which she was secretary. Her loveliness won her the title of "Queen of the Annual Dance" in 1947. ROBERT HEINS. Though he needed some help in winning the war in Europe, Bob has done all right by himself in Cooper since his return. A good hand at the *CE*'s favorite sport, bridge, he never plays dummy at the drawing board or at presiding over *ASCE* meetings. Bob is starting out with two strikes against the umpire, a good job and a bright future. MILDRED HELFMAN. Millie Helfman, Girl Civil Engineer, is the true-to-life story of one woman's fight to achieve true happiness in the form of a degree, against such odds as exams, reports and grades, and fortified only by native wit, imagination and that formidable phrase, "Professor, I have a question." She already has a good job with a firm whose name is that — — — — — long!

Hal Grossman

Maurice Hashmall

Henry Hausman

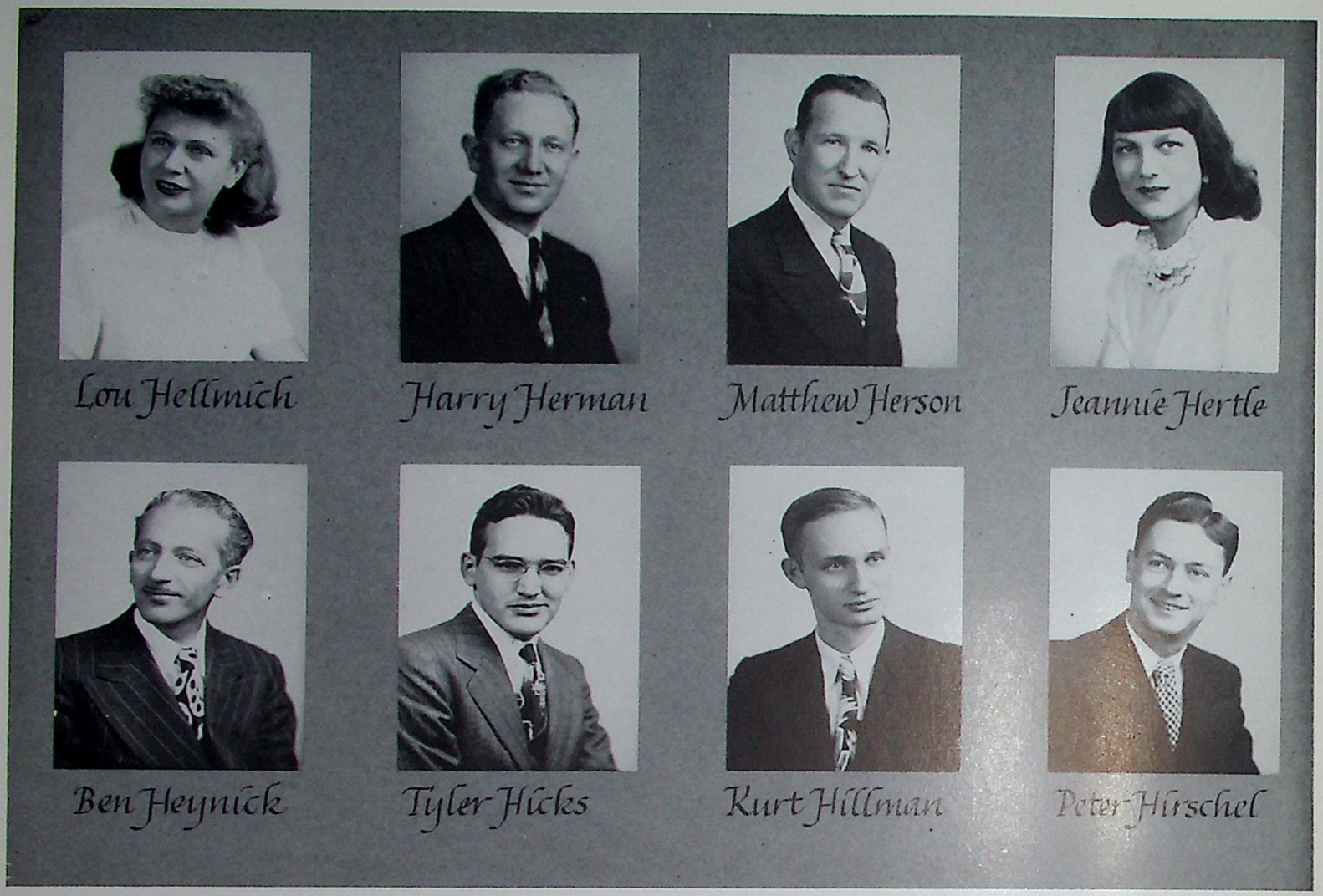
Mimi Hausman

Bill Haynes

Lotte Heilbrunn

Bob Heins

Millie Helfman



LUCIA M. HELLMICH. This evening architecture student from Brooklyn, though quiet and reserved, was well liked by her fellow students. She is methodical and conscientious in her work, and will no doubt succeed in her chosen field, architecture. HARRY HERMAN. Chairman of the lunchroom committee, he has long suffered one crushing blow after another. First they broke his ping-pong rackets, his balls and his table, and then as the coup de grace they turned his lunchroom into a sand dump. MATTHEW J. HERSON. Mat, who is 0.2500 of the big four, is an excellent example of the keen-sighted engineer who can check any slide rule operation to the fifth figure on his slipstick. This night Electrical Engineer was known to his classmates and instructors as a hard worker, and was conscientious in everything that he undertook. JEANNE HERTLE. An advertising artist by day, and a fine artist by night, Jeanne plans to be a portrait painter. She is interested in Bach and lettering, and also shows an interest for India, its philosophy and its culture. BENJAMIN HEYNICK. Ben is better known to his associates as the father of his class for his willingness to settle problems and let people copy his homework. A married man, at least so his wife keeps telling him, he has built up the reputation of being a "Great Guy." TYLER G. HICKS. Far from being a hick, Ty is an active member of the Night Mechanical Engineering Class. Not being content with just belonging to Tau Beta Pi, he is vice-president of it, and he was an active member of the class Ring and Key Committee. Aside from an engineering interest in power plants he enjoys writing, music, the theater, women, particularly his wife, with whom he enjoys sailing on the blue water. KURT HILLMAN. Kurt was the third ring of the Engle, Hashmall, Hillman three ring circus, better known as electronics laboratory squad one. The most outstanding achievement of studious Kurt at Cooper was his research upon the electrical conductivity of some instructors. He found traces of impedance, mostly resistive in nature. PETER HIRSCHEL. Pete, a hard working member of the Night Advertising courses, is trying to make his goal in the field of advertising. He is well liked by all his classmates, and considered one swell fellow. This unassuming chap always did his work quietly and diligently, with a minimum of fuss.

MARILYN HOFFNER. Sweet, friendly, and mischievous, Marilyn is fond of sports, fireplaces and Cooper students, especially those named Al. She's always around when there is a party to be had and occasionally when there is work to be done for the *Cable, Pioneer* and the varsity basketball team. PHYLLIS HOUSER. Phyllis is studying painting of realistic still-life to placate her husband, who is starving for art. She hopes to be a fine artist and the head of a great big family. We wish her luck in all future ventures. LAWRENCE ISRAEL. An enigma, he was very popular in certain circles, but none the less liked by everyone. A married man with no worries and few inhibitions, he is bound to soar to great heights in the field of advertising. SHIRLEY JAHR. A member of the cheering squad, Shirley is in her element, for she is fond of expressing herself. A quiet unassuming bombshell from Chicago, Washington, Nutley and Yonkers, she has tried to deconvert, and sometimes successfully, everyone she knows. BERTHA JEBALTOSKY. We could hardly recognize her this year after she had her locks shorn. Gaye is now half cherub and half Maria — either half is the better. Talent is to be seen in all her work, but especially so in her "spots." HAROLD JOSEPHOWITZ. Joe with the long curly hair, who finds 9:30 in the morning too early to begin classes, is the Casanova of the art school. He is always willing to ask a favor, and to share his lunch with anyone. We have no doubts that he will be as successful in the field of advertising as he is in the field of sex. ELLIOTT KANAREK. "Full of fun and fancy free, an architect does Elliott aspire to be." Tall, dark and suave, he is proud of the little wife who the waiter at the Senior Prom thought was the loveliest lady at her table. ABRAHAM KAPLAN. Big, bluff Abe has managed to talk himself out of many a tight spot. Abe sports the longevity record among the day Chemical Engineers, having started Cooper in 1937. He was drafted before he could return from his leave of absence. In the Army he became an instructor in the Air Corps with a First Lieutenant's commission. A happily married man, Abe and his wife reside in Brooklyn.

Marilyn Hoffner

Phyllis Houser

Larry Israel

Shirley Jahr

Gaye Jebaltosky

Harold Josephowitz

Elly Kanarek

Abe Kaplan

George Kaplan

Irv Kassman

Pearl Katz

Millie Kaufman

George Kaye

Cornelius Kilminster

Bill King

Jerry Klein

GEORGE KAPLAN. Genial George's organic thesis is still in the purifying stage. He always saved his talents for the noon-time bridge bouts, where he cooperated with Bill Summers in fleecing two suckers, one of whom was his buddy, Gilvarg. "Twinkle-Toes'" bowling approach has no peer. IRVING KASSMAN. Irv is a shy, reticent chemical type engineer who has been at Cooper such a long time that he feels that he at "least" owns the Unit Operations laboratory. PEARL KATZ. She started collecting three years ago and hasn't rested since. Whatever the cause, the organizing ability was hers. Pearl does what is to be done and does it well — as numerous activities about *CU* will testify, whether the *A.P.*, the *Pioneer,* a camp trip, or collecting for a birthday. Given a gold key by Professor Shaw, she returned the compliment at Christmas time with a candy cane. Certainty is — all little G's will be born with silver *A.P.* cards in their pockets—for life too. MILDRED KAUFMAN. "Silly Millie" her friends call her, because she is always ready to laugh and contribute her share of humor to the conservation. She can be serious though and always is when it comes to her first love — painting. Before coming to Cooper she studied at the Brooklyn Museum. Hobby: designs and manufactures Sterling Silver jewelry. GEORGE W. KAYE. About all George was able to say after looking back over all those blissful years at Cooper was, "If I had to do it all over again, I would." Just what he was referring to is highly in doubt. CORNELIUS T. KILMINSTER. An energetic engineer who obviously expended all his energy on lab reports. When not working, was found at ASME meetings. A staunch believer that "silence is golden." WILLIAM KING. Our Bill has talent and a half. Long, lanky and Miami bred, he was secretary of the *Y.A.G.* in his spare time — that is, when he was not involved in his fine art work. One of his famous birds won him a scholarship at the Brooklyn Museum. GERALD I. KLEIN. Hot lips Gerry can't decide whether to choose engineering as a profession and music as a sideline or music as a profession and engineering as a sideline. While making up his mind he is maintaining his membership in both the *AIEE* and Local 802.

SOPHIE KOWAL. Sunny, despite being a Brooklyn gal, was very popular with all the Graphic Arts students in the evening Art School. Known as a fine meticulous artist, she was often day dreaming about Marty, who was constantly on her mind. IRWIN LANDAU. Considered by most as a cheerful, intelligent, good-looking fellow, Irwin will never-the-less be remembered by a select few as the one who refused to learn how to play bridge—-right? MICHAEL LANDIS. Mike managed to get good grades and still enjoy himself. An alliterate man of Cooper, with a cumulative of 4.4, he was a member of Tau Beta Pi, the *I.R.E.*, and he won the Physics Prize in 1943. Twenty-five per cent of the big four, his loves are the three M's, Mathematics, Music and McSorley's (but not necessarily in that order). JACQUELYN LANG. Jackie is one girl who still believes in Santa Claus! Always smiling, and soft spoken, she was continuously dancing and singing. The girl with the first name that no one could spell correctly was always to be found with that little group that managed to have a good time whether there was a class going on or not. NATHAN C. LANG. Quiet Nat's boundless energy is channeled into his creative ability. This industrial design student, who spends his nights reading poetry, is aggressive, and is interested in gadgets of all kinds, especially those mechanical. AMALIA LEGNANI. An architecture student who is interested in her work and industrious, Amelia enjoys making her own clothes, singing off key, and cleaning her locker. She is preparing for a career as a building contractor, or at least so it seemed from the accumulation of bricks that was gradually built up in her locker. ALFRED LEONARD. This tall, handsome, blond, etc. (for etc. see picture) *CE* returned to Cooper after his tour of service with the German Army, only to be disturbed by fascinated artists who watched as he played bridge. He had to resort to extremes to get rid of one kibitzer, Diane Br—it will be Leonard soon. JOSEPH LETO. The guiding philosophy of this Brooklyn Mechanical Engineer has become, "Everything is relative!" He comments on his graduation and his future as follows: "It depends on how you look at it!" Thankful for finishing Cooper unscathed he extends his heartiest thanks to his "Mom, Dad, and Instructors" in guiding him over the arduous path of education.

Sonny Kowal

Irwin Landau

Mike Landis

Jacky Lang

Nathan Lang

Amalia Legnani

Al Leonard

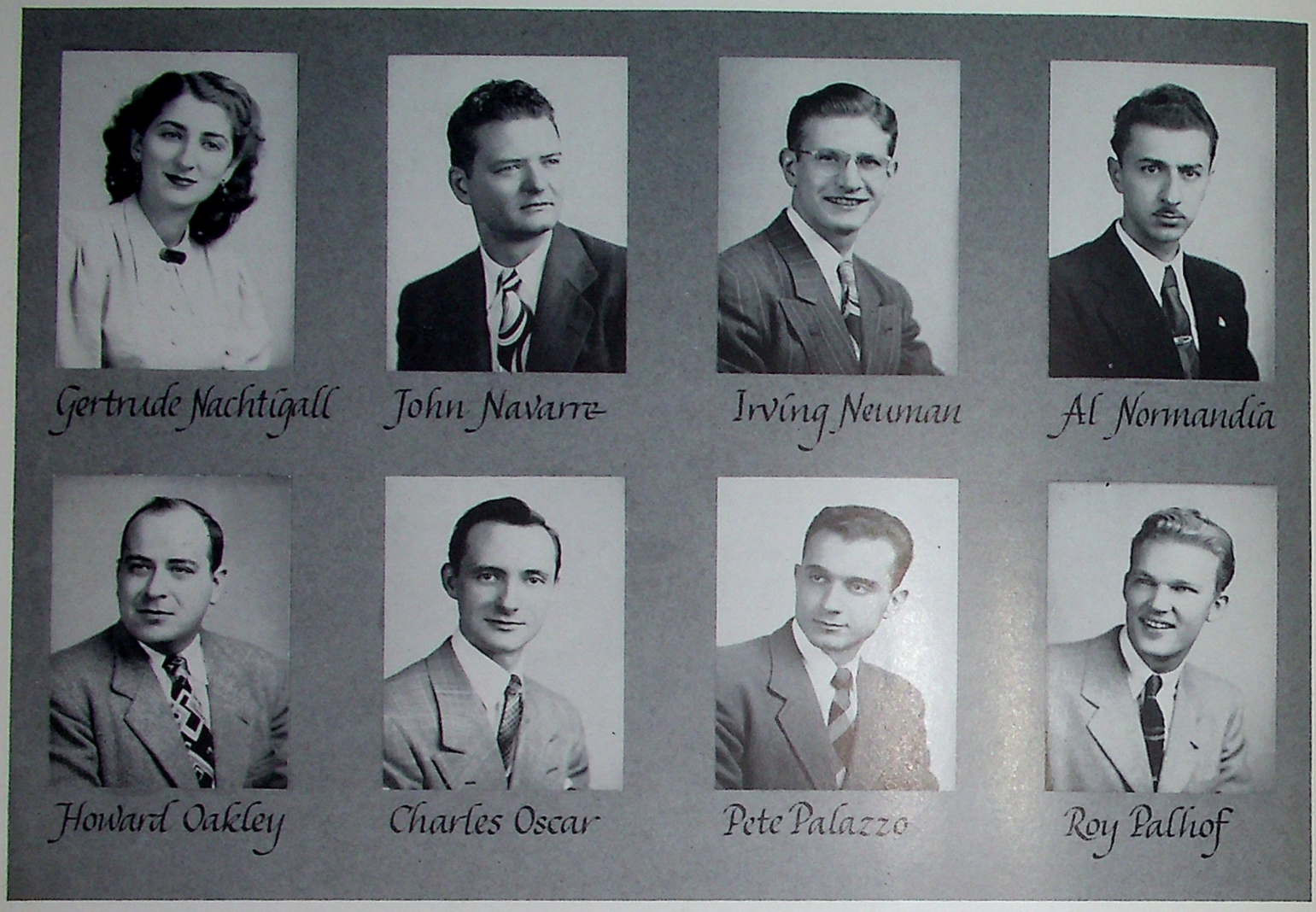
Joseph Leto

GERALD J. LIEBERMAN. Here's wishing him as much success in the pursuit of gin rummy and filibustering and more success in the pursuit of women during his post-graduate career at Columbia as he had in Cooper Union. HARRY LIEBMAN. Harry's remark about himself, "an engineer in technicolor" probably refers to the splendor of his sartorial tastes. He's the Steinmetz of his class — in comparison with the other *MEs*. He can tell at a glance what station a radio is tuned to. BERTRAM LIEF. The better half of the Lief, Fischer Co. Commander Lief of the white (that Oxydol sparkle) shirts, the navy and "Good Soldier Claudius" fame has a favored bit of advice to all, "Stat it down." Dignity, Dictionary, and Debates are Bert's key words. CHARLES J. LILLIN. Chuck is a boat builder and lady killer extraordinary. His favorite pastime (the other guy's time) was telling stories about the army. Chuck has a quick wit and always had a quip on the tip of his tongue. His witticisms never failed to light up the Night Advertising class. CHARLES LOMLER. Charlie is the fellow who passed the Engineering entrance examination and entered the Cooper Union Art School. When he isn't busy working at his advertising course, he can be found at McSorley's indulging in his passion for ales and onions. STANLEY L. MACKLIS. Despite his handball specialization in the art of cuts and killers, probably no one was more surprised than Stan when he was voted the class bully. It's understandable, though, why he has to be tough, he's a Yankee fan and lives in Brooklyn. GILBERT MAFFEI. Always questions, always music, always laughter—that's always Gil. Here is a man who thinks! Reads much and constantly clutches his battered dictionary. One of the best basketballers in his freshman year — well, outstanding in those orange long-johns! ROBERT MANFREDI. Brilliant Bob always up to date on all technical literature. This ardent bridge enthusiast is going to start earning his wages at G.E. in Schenectady. Popular, he has a quick wit and an affable smile, an attractive wife and a Hallicrafters receiver. What more could an *E.E.* want?

EDWARD MANTE. Captain of the Pelham Manor bathtubs, Ed was secretary and also vice-commodore of the Yacht Club, and was awarded a major "C" for his contributions in behalf of Cooper in intercollegiate yachting competition. He will be especially remembered for his ice skating, his "Queen Mary" or his good old faithful car—bless it. A good natured guy, Ed was popular with everyone. NICHOLAS MARCHICA. Nick will be remembered for his sincere enthusiasm, as well as his dramatic talents. He was a member of the Dance Club since he loves to dance. Besides this he played on the Day Art School softball team and was in charge of props for the Dramatic club. ELSIE MARES. A real good egg, if there ever was one. When it comes to bearing the brunt of practical jokes, Elsie acts like a trouper. Her favorite facial expression is a grin, and she can usually be found sporting one. But she takes her work as a draftsmen in a furniture studio very seriously. JOHN MARSHALL. John seems to have made a hobby of collecting memberships in honor societies such as Mu Alpha Omicron and Tau Beta Pi. Widely acclaimed for his talents in machine design in which he successfully designed a left-handed monkey wrench for right-handed pipe threads. John looking for the loan of a good ear should consult Silas Cooper. JEROME J. MARTIN. Jerry is a graduate of the Day Art School, 3B1. NATHAN MAYRON. Nat has made his way quietly and industriously through Cooper. After graduation Nat plans to continue his studies and work for his Masters at the University of Southern California. ANTHONY MAZZOLA. Rip is the pipe smoking pretty boy of his class, has a talent for advertising and a liking for Joans. He is an all-around good sport, he comes in very handy when food needs to be taken up to Green Camp, living in Passaic, N. J. While in school he played on the Day Art School basketball team in the intramural tournament. HARRY McCLOSKEY. A fine broth of a boy, Harry has ambitions to establish his own pottery and moulding business. At present he is working in Hearns' furniture department where he has earned the title of "Coordinator." Although he blows his top in political discussions, he is usually quite mild. He is a great believer in progress, looking forward to a vacation trip to Mars.

ROBERT E. McCOY. Remmett's one of our hardworking all-around grand guys, whose work has that professional look. He just loves McSorley's. After graduation he intends to work for a degree, preferably at Yale, which will enable him to teach art. When financially able, he intends to delve deeper into the practice of painting. EILEEN McGUIRE. Eileen, best known to her intimate friends as Micky (Bar Rag) McGuire, is a sweet girl with an Irish smile. Behind that charming exterior, however, lurks a budding art director. WILLIAM J. McMANUS. Mac has been enduring the ups and downs of the elevator game in his spare time from his studies. This little lad from Jackson Heights should go places, for he could find little time for anything other than his *EE* homework. SYLVIA MEDAISKY. One of the more extra-curricularly active students; Dance Club president, *Pioneer* and *Cable* staff member, Sadie Hawkins Dance Chair, Annual Dance and Senior Prom Committees, Class Night, Winner of Gold and Silver "C"'s. She plans to study painting and business management, continue embroidery designing job, and travel during vacations. WILLIAM E. MEECE. President of the *AICHE*, Bill's accuracy with numbers, and his polysyllabic acrobatics are a constant source of pleasure to his classmates. Lefthanded brunettes are his specialty. The combination of Rivas and Meece, though powerful, failed to win the series for the Dodgers. HENRIETTA MEISEL. "Used to be a Siamese twin," night school has since claimed her other self. A very doing girl, Hank sings, smiles, cooks, sews, weaves, (suits and suits), and swims backwards and forwards about five times . . . "but I don't get drunk . . . I never did" . . . yet . . . MEIR MENES. Otherwise known as "Fang" is the class genius. Made Tau Beta Pi without cracking a textbook, and can discourse fluently on sex or synchronous machines with equal ease. Once voted the class egoist, he is popular in spite of himself, and sat in the last row with the rest of the wheels. STANLEY MEYERS. Stanley has his own electronics laboratory which he plans to expand in his post-graduate days, when he can call his time his own. He also plans to catch up on all the non-technical reading which he has missed in recent years. He did find time though to join the *IRE* and *AIEE* managing to hold down the position of vice-chairman and secretary in the latter.

KENNETH MILLS works at spot illustration but hopes to do commercial illustration after graduation. His favorite sport is ice-skating. Ken used to play the trumpet, but now makes a hobby of photography. Using the medium of photography, he reproduces a lot of his own work. JACK R. MINKOFF. Jack has been guided through his long years at Cooper by the old adage, "He finds a world who finds a friend and makes that friend his own." If you are ever in need of finding out anything at all about cycloidal propulsion, look him up. ARLINE MITTLEMAN. Arline will be remembered as St. Agnes of the Mice in "The Beautiful People," a presentation of the Dramatic Club. This fashion artist always has had a great interest in her advertising class and has spent many happy hours there. JOAN H. MOESSNER. This Connecticut miss does a superb job of supplying Cooper with its ultimate in suavity. There have been times when she has stopped traffic with her firm "but really" glance. Joan's artistic genius combined with her blasé personality and gentle charm have made her a really outstanding student. EMILY F. MORTENSEN is an architect student who hails from Yonkers. Mort will be remembered as sweet, quiet, and industrious — and not to forget, pretty! LORRAINE G. MOSELEY. Little Lorraine, whose eyes have never been known to be expressionless, has excited many a Cooper male. She's quite a deceiving one who has often awed people with her innocence, but it just seems her mind was off on a tangent. She has a special affection for clowns, which sometimes shows in her work and her choice of friends. HERBERT G. MUHLBAUER. Quiet, bespectacled Herbie astounds the class with his infallib'y correct Unit Operation reports, and his ability to go through Thermo unscathed. Another of Bill Summers bridge victims, he lost five cents every lunch hour with irreversible regularity. EUGENE D. MURRAY. Gene is known as the man with ten answers to every problem. His advertising classmates earn pin money by speculating on the number of finishes he'll do for each piece of work required by the teachers. But let's face it, this winner of several advertising awards, is not only a wonderful artist, he's a doggone wonderful guy.



GERTRUDE NACHTIGALL. This snappily dressed miss loves calligraphy and beautiful letters. At present she has a job with a package design concern and this and her social life keep her very busy. She has designed some very beautiful leather belts and the class suspects that the reason she wears them so often is to show off her slender waist. JOHN N. NAVARRE. As a night engineer, he held no offices, received no awards, and participated in no extra-curricula activities. In this respect he may be classified as a typical engineering student. Aside from this aspect of college life he was a good student and claims to be a solid citizen. ISAAC NEUMAN began his Cooper career back in 1941 but like so many, his education was interrupted by a note beginning "Greetings." After serving three years in the army, Irv returned to Cooper but this time at night. ALPHONSE R. NORMANDIA. Art editor of the *Pioneer,* Head Chancellor of Lambda Tau, actor and comedian extraordinaire, Al has become the ubiquitous conversation piece of all his little friends and fans. His presence, too, at a party means lots of fun and broken bones. Best recognized by his nose, Homburg, mustache, and three guys named Louis, Moe and Don. Al will be remembered by those who didn't know him personally for his creation of Lester Fink. HOWARD T. OAKLEY. A foreigner from across the river, Howie has wended his way to Cooper four nights a week to putter about in the chemistry laboratory. One of his major ambitions after graduation is to enter into wedlock with some lucky girl. CHARLES R. OSCAR. Though he is more thoughtful than loquacious, he can occasionally be encouraged to speak more than a few words. Reserved (and married) Charlie may be seen working quietly at his drawing board getting things done. He has a flair for advertising with a large dash of fine arts thrown in for good measure. PETER R. PALAZZO. The laziest man to amble off the Staten Island Ferry every morning and to meander back to it every night, Pete is known as the lullaby boy. He has slept through many a lecture, but his work has never suffered for it. He was sought with the query, "Where is Ungula Tony?" ROY M. PALHOF. Roy, one tall handsome Apollo, is known for his designs for modern furniture and his trombone playing. Among his many accomplishments at Cooper was the meeting and marrying of his wife, Virginia, who attended night school.

MARY PAPPAGEORGE is addicted to sudden bursts of happy song in the midst of class, to the amazement of her charmed classmates. Probably Green Camp's most popular hostess, Smiling Mother Mary's "Meal Specials" have earned her a million good (and hungry) friends. And all of this is augmented by agility with pen and paint. One extra added attraction was her whole-hearted support of Cooper's varsity hoopsters. LILLIE M. PARKER. President of the senior class, and one of the nicest girls in the art school. It's too bad that most of us didn't get to know her better, but those that know her think she's swell. MICHAEL PASZKEWICH. Mike is another one of the numerous day E.E.'s who was an ardent bridge enthusiast. Mike, an eager lad, was always a week ahead on problems. In his younger days he was active in school politics, being vice-president in his freshman year, and president of the sophomore class. PETER PELLACK. Peter is a new born artist who has just acquired a new born baby. An advertising student, he plans to specialize in production after he graduates. FRANCES PENN. For the latest on apartments and interior decorating, just ask Fran, for whom school begins too early and ends too late. After graduation, she intends to take a trip to Canada with Lee, her husband, and then to Paris, where she'll live for a while.
NATHAN PEPPER.

"Poems on college graduates are often pretty bad,
The rhymes are poor, the meter's off — the words are pretty sad
They return to plague the author — a menace in the night,
And so, Dear *Cable* editor, a poem I just won't write."

SIDNEY PERLMAN. An artist with his own inimitable style, Sid paints with his brush in his cheek, but they call it "Art." A specialist in advertising, he is also a member of those who migrate from Brooklyn. ARNOLD PETERS. Holding down a commercial lithographers job, Arnold plans to continue studying painting. Has done a bit of traveling, to and from Elmhurst, L. I. daily. Intends to see other scenery some day. Interested in all kinds of music, classical literature, and swimming (and women).

Mary Pappageorge

Lillie Parker

Michael Paszkewich

Pete Pellack

Fran Penn

Nat Pepper

Sid Perlman

Arnie Peters

Irwin Pfeffer

Kamma Phelps

Jo Pizzo

Bob Ploss

Morton Rainish

Grace Raney

Mary Rankin

Malcolm Reader

IRWIN PFEFFER is the expert of the day Electrical Engineers on the islands of the Pacific, recently having returned from Iwo. His entrance to class is usually marked by a buzzing sound, a bright grin and a drawn out "always smiling." A member of Tau Beta Pi, he stands at the head of the class but sits in the rear with his buddies, Galidas, White and Menes. Irwin was known as "The man with the right answers at the right time." KAMMA PHELPS. A graduate of Day Art School, 3B1. JOSEPHINE PIZZO. Lurking behind those big brown eyes is Jo, a little pint sized package of gentle dignity. She paints, sculpts, and chortles gayly at times. Brooklyn College has some strange fascination for her, and he will make an excellent attorney too. ROBERT PLOSS. Bob is a hard working, conscientious, night Mechanical Engineer, who finds little time to spare between his job, homework, and classes. Now that he is graduating, Bob intends to spend some of his spare time on interests that he didn't quite have time for while at Cooper. MORTON MAC RAINISH. It never pourish, but it Rainish! Morton, not related to the salt of the same name, picked up the name "The Umbrella Man" during his stay at Cooper. Mac was one of the night Mechanical Engineers from up Bronx way. GRACE RANEY. Grace, a former night school student but graduating from day Fine Arts, is known as a terrific artist and is destined to fame. Her work shows directness and purpose. She is married, but teams with Dolores D'Inzillo and Al Zalon to form a "terrible trio." MARY RANKIN. For three years, our Rankin has been Cooper's outstanding grasshopper, and it's a rare treat to see her with both feet on the ground. Never failing to leave a lasting impression on all she meets, Mary suffers acute pains on the mention of pink and cows. She is seldom seen without a scarf secured in an abundance of folds around her pretty neck. MALCOLM READER. Mal is one of those who is forced to choose between pleasing his instructors, or pleasing his wife. In the true Cooper tradition Mal sits home with his slide rule while his spouse patronizes all the local movies. Oh well, only a little while longer and they can both go to the movies together.

PAULINE REILLY. Her motto is "A Painting a Day to Throw Away." Pauline and her magic brush fly through oil paintings until the canvases (all great) pile up, and then she distributes them to anxious friends, saying "I don't know what you want these old things for." They'll bring in a good price some day. THOMAS J. REILLY. Tom earned many suspicious glances from his classmates by turning in typewritten homework. The secret of his success, he claims, is a talented wife. He also denies any relationship to William Bendix of cinema fame. Then why all the interest in *A.S.M.E.* films? ELEANOR M. REYNOLDS. If you see bouncing blonde curls, racing with a Connecticut dignity it is only Peggy being pursued by the BRB. Take another look and see Miss Braverman's class sketching a tall slender lady in a knit dress; she knits sometimes too. Again and again look at the kaleidoscope of Peggy; cooking, housekeeping (she has a fireplace with an apartment attached), sculpting, painting, running a tea, or the Annual Dance. FRED B. RIVAS. Freddie's debacle during the 1947 world series was gleefully remembered. The proud owner of bright red hair, and a Mercury convertible, Fred is one of the most athletic in the class. He was captain of the basketball team in 1942 and is a consistent bowler, score unknown. His ability to down ten ales at McSorley's has never been questioned. LOUIS ROBERTS. Noted for his enthusiasm and outspoken interest in all his subjects, especially his forte, architecture. LYDIA ROBINSON. Robbie has been riding the Wrong Island Railroad for lo these many years. Lyd, as she's also known to a few, is a bright light in the Fine Arts class! Her bright smile and pleasing personality are a great asset, and should help her to achieve fame in her chosen field. EDWARD ROFFMAN. Ed, a popular night artist, can often be found, apparently hiding behind his easel, completely absorbed in his work. He considers his time at Cooper well spent, for not only did his art work profit but he met many fine friends. Ed's talent should stand him in good stead in the professional world. JOHN ROSS. Gold "C" winner, *Cable* Art Editor in 1943, treasurer of his sophomore and junior classes, and happily married to a former Cooper student, he and his wife are both artists. He hopes to be able to earn a living through painting, and to visit Italy, Switzerland, France and Germany.

Pauline Reilly

Tom Reilly

Peggy Reynolds

Fred Rivas

Lou Roberts

Lydia Robinson

Eddie Roffman

Jack Ross

SHEILA ROSS. Sweet Sheila, the inventor, is liked by all who know her. Still water runs deep describes Sheila, for her quietness conceals many hidden qualities. The only thing she can't hide is her cover girl smile, which is always evident. MELVIN ROSSNICK. Mel takes his Electrical Engineering seriously. In school he is a member of *AIEE* and *IRE* while in his "Spare Time" he operates his own home radio station W2JLS. HAROLD L. RUBIN. Before he came to Cooper, Harold studied accounting and at present is working as an engineering accountant in the day and at night mixes a witches brew in the Chem. Lab. GABRIEL N. RULLO. He is a stalwart athlete who has accomplished the phenomenal feat of lifting a 6 oz. weight one foot. Asked for a comment on his school career, he replied that Cooper should give a *BST* degree for the blood, sweat and tears that are shed for the cause of an education. ELSIE SAKALIAN. Ulsie Baby spent three happy years running amok through Cooper. Her colorful humor and gamboling helped make our lives gay. A member of Lambda Tau, their half of the delegation from Yonkers, worked energetically on the *Pioneer* Circulation and Exchange editor. ISRAEL SCHIFFMAN. Irv never seemed satisfied, but always seemed to be enjoying himself. The mustache that he sports is for the purpose of added maturity. A perfectionist, he is conscientious in his work and should some day be successful in advertising. CHARLOTTE SCHNAPP. Cooper's representative to the first National Student Association convention, Charlotte is the gal from Brighton Beach who believes the world is slightly susceptible to improvement and does whatever she can to advance the progressive cause. On the side, she studies Fine Art, works for the *Pioneer,* is a Lambda Tau member, and is engaged to K-square. RHEITA SCHREINER is the sweet part of a Yonker's trio that tried to take Cooper by storm. She was one of the *Cable's* prized and pampered possessions in her first two years and, also, Business Manager of the "organization". In her last year, she gave the yearbook up, in order to devote herself to architecture and her recently acquired husband and apartment.

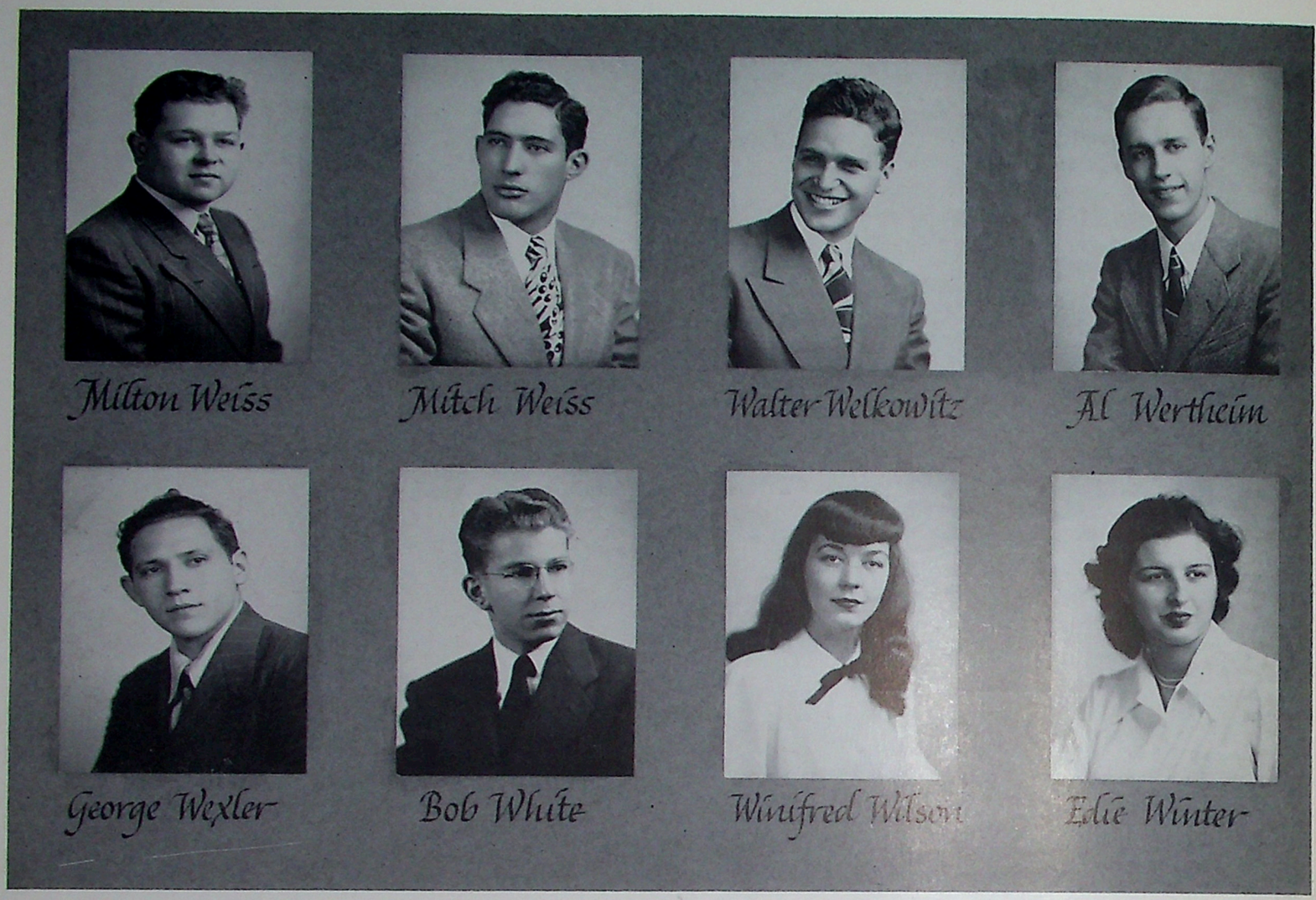
EDWARD SCHULTHEISS. Eddie, as any aspiring advertising man should be, is a bundle of ideas and ambitions. At present, some of his energy is directed to juggling in which field he is fast providing menacing competition to the professionals. He can best be identified by the camera forever slung over his shoulder. JOHN T. SELLDORFF. Tom's skill with a Stillson wrench is exceeded only by his skill with women and his collection of telephone numbers is a continual source of amazement. Known as the "Mamaroneck Flash," his yachting ability led him to found the Yacht Club. The reports from squad 3 testify to his drawing ability; his impromptu cartoons have stimulated many back row discussions. HARRIS SHAPIRO. Harris was voted most likely to succeed in production. President of the *AIEE,* manager of the class soft ball team, and of the class basketball team, he is the happy go lucky type that would make out well as a political boss. Known for his repertory of corny gags, which never seems to run dry, he is a member of the clique of Hausman, Klein, Weiss, and Shapiro, which will make the name of Cooper Union famous (or more likely, infamous). JULIUS SHAPIRO. Julie, who has chosen the alias of Julius S. Shapiro Jones, is another of the industrious night *M.E.*'s. Though he had little time to spare, he managed to find time to join the ASME. His motto is "Save a BTU." He slaves away daily for dear old Sarco. HAROLD W. SHOLL. Harry is a refugee from Rochester, N. Y. Aside from his artistic endeavors, he has also mastered the piano without the benefit of lessons. One of Cooper's most eligible bachelors, plus being a most conscientious student, he will probably go far in the outside world . . . . LEONARD SHELDON . . . . ARLENE SHORE. Our long glamour puss is just crazy about textiles, and tremendous men. Her black mesh stockings and her pantaloons intrigued us all for the past three years as well as her buns and dangling earrings. PETER SICHEL. Peter is above all else a conscientious student, his last words, as the school-lights are going out: "Boys, we must get this data down." As extra-curricular activities, Peter lists his wife and child, the *ASME,* and Tau Beta Pi, in the latter of which he held the office of president.

HYMAN SIEGAL. Hy started going to Cooper Union in 1939, but a session in the Army interrupted that. He is employed as a model-maker in one of the better-known display firms and loves his job. Although he has been chasing Cooper Union girls merrily for four and a half years, he has often expressed his opposition to marriage in no uncertain terms. Now, we hear, he is going steady. Mazeltuv! HAROLD Y. SILVERMAN. A night advertising student, Harry has long looked forward to the time when he could stop calling himself a schoolboy, and devote more time to the many things that interested him. After heaving his sigh of relief, he will look back upon his Cooper days as happy ones; at the things he learned and the friends he made. VINCENT A. SILVESTRI. Vin is a serious, talented student well liked by all and a swell guy whose company is enjoyable. His main accomplishments at Cooper included his discovery of McSorley's famous old ale and entering into the realm of marital bliss. JULIUS SIMKINS. Dark, quiet and good-looking Julie was Art Editor and Literary Editor of the *Cable*, a member of the student council and chairman of the splash committee. A fine artist with a flair for money. The day art school and the *Cable* staff wish him good luck in his new display studio. ARLINE SIMON. Fatso's ready smile, not to forget her "Where's Elsie" button will be remembered by all who know her. Arl contributed a lot to Cooper, outside of being our "Anything for a gag" girl, by working for the *Cable* and also on the *Pioneer* circulation and art staffs. With all this it seems she earned a gold C. MORRIS SIMPSON. Mo, from out Brooklyn way, has three interests — architecture, women and more women — particularly those with loads of sex. Incidentally, he had the reputation of being a terrific dancer, so gals beware. Despite this build-up, the Flatbush Casanova was never-the-less one of the more popular day artists, and is bound upward on the ladder of a successful architectural career. WALTER SINELNICK. His quiet unassuming manner earned him the slogan "He seeks but to learn." The members of the *ASME* however, are glad he found time to run its program committee — and its movie-projector. IRVIN SINGER. Another *C.E.* suffering the effects of the love of a good woman, Irv managed to squeeze a schedule of day and night classes into one hectic semester to graduate with his original class. By the time this printers ink is dry, Irv should have settled down to a frantic married life.

ROBERT SLATER. Bob is going places in the greeting card line. His marriage is a Cooper Union one and he and Heidi, his wife, are grooming their fourteen month old son for a Cooper education. Look what it did for them! EDWARD W. SLEDJESKI. Ed was a former member of the day school, who after deciding he had too much time on his hands, went out and got a job and attends school at night. After graduation he intends to rob Cooper of one of its secretaries, the one who works in the Physics Department. While in school, Ed was a member of the Newman Club and *AICHE*, holding the office of treasurer in the latter. GEORGE T. SMITH. George, the fourth member of the decade club of night engineers, is the only father in the group, having a one year old son, George Jr. He is a member of *PSO* and is doing well in the contracting business. IRVING STERN. Irv carried his Good Conduct Medal with him through thick and thin and twice daily on the Bronx Express. Between train rides, he managed to squeeze in membership in *ASME* and *AMS*. Among men who know Irving best, it is agreed that the Army is the only place he deserves the medal. MURIEL STERN. Mimi is one of two, but which one? The only thing that saves her instructors from seeing double all night long is the fact that the two are in different classes. The one that you see in the advertising class is Mimi. She has a pleasing smile and personality to match. Her favorite pastime is working in the darkroom with darkroom specialists. RITA STERN. Ricki is the other half of the Stern gang, the one who was taking decorative arts. Like her sister, she has long been blamed for the deeds and misdeeds of her sister. Ricki is also possessed of an engaging smile and sweet disposition, and is joy wherever she goes. ROBERT STOLLER. A serious minded fellow with a great deal of talent, employed as a layout man in a fashion advertising agency, Bob is a thinker with a great many convictions, and his seriousness and honesty are noticeable in all of his work. Bob is married and like most of us today, is apartment hunting whenever he can stop painting. RICHARD STRAUSS. Dicky is a member of the big four who chased electrons all night long. A conscientious worker as long as it isn't on his own time, he never failed to catch the 9:55 special to Grand Central every evening. He won the Physics prize in 1944 and is a member of Tau Beta Pi, *AIEE*, and the *IRE*.

MAURICE SULLAM, Manhattan's contribution to Cooper Union, can put after his name, "Cooper Union, 1941-48." Oh! we forgot to add there was a three year extended tour of Europe with the U. S. Army. To prove what a glutton for punishment he is, and not content with the hardening of the arteries engendered by four years at Cooper, he broke down in February and "took" himself a wife. Moe is going to take his design talents to Oklahoma and there develop them at the University of Oklahoma. WILLIAM A. SUMMERS. Bill came back from the Navy endowed with a bride who types up his reports and does the odd jobs. As an ace electrical engineer among the chemicals, his battles with the Maxwellian demon have become legendary. ERIC EDEN SUMNER. Despite the gasps and groans over the complexity and effort put into reports by his classmates, Eric always seems to turn up with a better job. That is, when he shows up at all. JOSEPH JAMES SWATKO has a hard time fitting his Electrical Engineering Courses into his curriculum. He is a member of the Student Council, *AIEE, IRE,* and the Newman Club besides having held the positions of Treasurer and Recorder in *P.S.O.* In addition to all this, he managed to find time for his hobbies which were going to parties, dances, and vacationing at Camp Green. MARY TALLOS is a girl you don't forget easily. We don't have to mention her smiling countenance, pleasant personality, and wondering eyes (but we will). Mix these with a talented young lady and you have a popular student and a potentially successful artist. STANLEY TANNENBAUM. If on the street someone meets you with a loud "Hello Dahlinnng!" and waves a red handkerchief under your nose, it's only "Stunted Krudenbaum," our red-sweatered, beret wearing Bohemian from Brooklyn. Come on Tannenbaum, "Give us a gooey kiss!" SACHIKO TASAKA is endowed with special talents for turning out unusual and elegant pieces of Orient-flavored design. Sachi, too, has a wry sense of humor, spoken in an especially angelic voice, that catches you unawares, and leaves you laughing. MARVIN L. THOMAS. Colonel Lee from Virginia is the fine artist who paints in sections. He intends to go to France this summer. Tell us, Tommy, is that red nose from Cadmium or Schenley's R?

WILLIAM C. THOMPSON. While in the Navy he developed a love for life and is now just waiting for his release from scholastic servitude to start living. He did manage to find some enjoyment while in school, being an expert on the subject of "An Expose of Sixth Floor Art Courses as Observed from the Seventh Floor." EDWINIA TILLINGHAST. Tall stories are Eddie's specialties. They're always based on fact, but even she admits that she likes to elaborate. Sweet and quiet, Eddie studies fine arts and likes the horses. LOUIS JAMES TRAKIS. Varsity Basketball Team Member, Lou is popular for his bold humor, which was exhibited nightly to classmates, and yearly to the school in Class Night Shows. Lou claims that he beats freshmen, sells elevator passes, and sells Cooper basketball players to Pratt. Rarely seen without Alphonse Normandia, or a shrunken skull, Lou helped put 63 Cooper Square on the map (studio of which he is part owner). HARRY TURKO's education was interrupted by a two year sojourn in the army where he served in an Ack-Ack outfit. He is married to a former Wave and has a two year old son, whom he lists as his extra-curricula activity. FRANCIS WAEHLER, through his natural efforts, is a fellow that will go far in his chosen field of Architectural Design and Construction. HENRY J. WALD. High on Henry's list of abilities (which includes winning at ping-pong and losing at gin rummy) seems to be an uncanny knack of guessing his test marks. He wins more money that way. HAROLD WALLERSTEIN. Harry, quite an earnest student, has many diversified interests, mostly out of school. He wants to enjoy all the good things in life, and he has a gnawing ambition to read and learn more; but when will he "get time to paint?" CARL WEININGER is the man who wishes he was living in 800 A.D. (what people don't wish to avoid paying income tax?), but then how would he get to Cooper from his Connecticut residence? Friendly and reserved. Carl is well thought of and liked by his many friends and acquaintances.



MILTON WEISS. Milt will be remembered for his patience as well as for his concisely methodical work. He always came through with the always expected good result. Milt intends to further his industrial designing at another college. Besides all this, he is an ace photographer. MITCHELL WEISS is the authentic brain of the electrical engineering class. Recipient of the vaunted Schweinburg, the calculus medal, and the treasurer of Tau Beta Pi, he has garnered the highest cumulative in the graduating class. WALTER WELKOWITZ. Walt, a genial sort of genius, was secretary of Tau Beta Pi. Another bridge fiend, he hopes that there is always a fourth to be found in Ohio, where he is going to continue his studies. The general opinion of the class is that he will be the first research engineer from the class. ALBERT C. WERTHEIM. Al came to Cooper every day from Newark. His love of sports has stood him in good stead in his chosen profession, he knows more about horsepower than anyone else in the class. GEORGE WEXLER. George is one student who has the soul of a true artist and lives for art! While at Cooper he joined the ranks of the married men. George's art education was interrupted for a time when he served in the forces of Uncle Sam, as did so many of the graduating class. ROBERT WHITE. Bob has justifiably prided himself in being the "Big Man On the Campus" of his class. Elmer, extremely capable and an excellent conversationalist, actively engaged in most major student activities. "Old Bob" proved extremely effective as Co-editor of the *Pioneer*. We will miss Bob with his 1935 styling of the Lindy Hop, Charleston and Susie-Q, and his confidential and contagious smile. Massa Bob spent a good deal of his class time writing editorials, and conferring with his confederates Galidas, Menes, and Pfeffer. WINIFRED WILSON. Winnie comes from Michigan, and switched to Cooper from Michigan State. Lately she has learned to knit argyle socks (and very well too). Tall and sophisticated, Winnie never arrived before 10:00, when she very subtly sneaked in. EDITH WINTER. Tall Edith is the "all around" gal in the class. If you hear a philosophical discussion a-raging, you can be sure Edith's in the middle of it all. She has a terrific sense of humor and everyone likes her. She is generally behind a stack of books, whistling some obscure melody or Gregorian Chant, or some such foolishness.

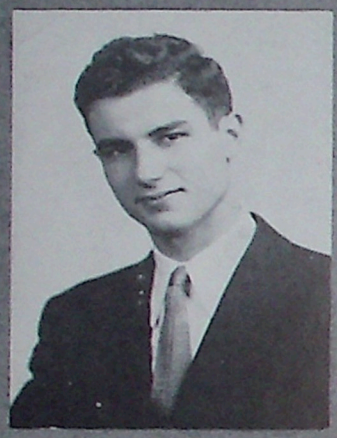
STANLEY WOJIS. Stan studied Chemical Engineering, but he may have missed his calling for he enjoys tinkering with his car and is "Mr. Fixit" in his home. In his spare time his main fields of interest are dancing, swimming and traveling, though he is getting tired of traveling on the Staten Island ferry with "seaman" Braca. MARILYN WOLF. Mickie never succumbed to New Jersey's charms and so she spent her days at Cooper trudging back and forth with her trusty little suitcase. A member of the Dramatic Club, she did a fine job as Daisy Devore in "The Adding Machine." A devotee of voice, many a song was wafted over the walls from Miss Braverman's fashion class by the singing Wolf. GLORIA WOLFF. One of the few who like just about everything, especially man and political science, she is our "Queen of Purity and Goodness." After she graduates from Cooper, she would like to do political cartoons and book illustrations. Gloria's loveliness plus her painting added color to the class. IRWIN WOOLF. For some unknown reason Irwin keeps insisting he is no "wolf." He is very concerned now that he is graduating, that he will have nothing to keep him busy on the long cold winter nights. He would also like to know just what he can do with his degree when he gets it. FRANCES WYNSHAW. A competent advertising student, Fran, was perpetually late to class, though she always did manage to arrive at some time or other. This tardiness was attributed to her being tied up in the knots of matrimonial bliss. JOHN G. YAGO. John classifies himself as "the super financier and South American diplomat" of his class. He also has many illusions as to his prowess with members of the opposing sex. His claims are as yet unsubstantiated, being still an eligible bachelor. South America, take him away. ROSALIND YAGODA. One of the most attractive young ladies in the senior class, who as Mrs. Stern is now out of circulation, Roz is always gay, smiling and cheerful; one doesn't have to guess that she enjoys life. It is evident in her work; that liquid flowing line, those brilliant little color spots. JACK YOGMAN. Jack shows that a degree does not mean everything. While attending Cooper to get his *ChE* degree, Jack was in the meantime working in industrial engineering and had many graduate engineers working under him. He was also a member of the night division of the *AIChE*.

Leon Zadoff

Steve Zambito

Molla Zellermayer

Molly Zimmerman

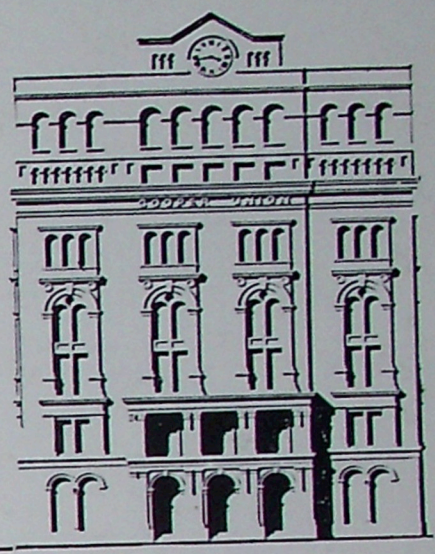


Tony Zules

LEON ZADOFF. Lee is one of the three married men in the class, and sports a cute two year old daughter. A veritable demon with homework, the odds were with him when the rest of the class couldn't figure out a units operation problem. His nonchalance in the Chemical Engineering laboratory was amazing, with the exception of the times when he was foreman. STEPHEN C. ZAMBITO. Steve is a serious lover of the arts, with music as his second interest, who has been attending Cooper diligently for a long, long time, frequently both the day and night scohols. He is a nice person to know and have as a friend. MOLLA ZELLERMAYER. "I like them love stories, so sweet and simple and . . . and . . . wholesome." That's Zero Zellermayer talking, the fair haired girl of "The Adding Machine." Molla's wit and humor has kept the class grinning for nigh onto three years. MOLLY ZIMMERMAN. Tripping on the light fantastic toe enters Molly, prima ballerina behind the footlights. Molly has been general aide d'camp of every production at CU for three years. A good earnest worker, she possesses the nicest little hats. ANTHONY ZULES, JR. Versatile Tony, the Adonis of the class, is loved by all. Highly talented, and industrious, this member of the Three Musketeers is an added joy to any gathering because of his sparkling humor and wit. The original "Wh' hoppened" boy, he instigated the laughter which kept the entire class in high-sterics.

Camera Shy

George Anick, Herbert Ascher, Dawn M. Barlow, Lon D. Beckford, Lawrence A. Bernstein, Betty Boltuch, George Borkin, Reichert W. Bruckmann, Claire L. Butler, Mirjam Enoch, Sally S. Fairchild, Robert C. Folley, Irene C. Garguila, Roy M. Greene, Kurt Griesshaber, Murray Guzik, Manfred Hufschmid, Arnold R. Kelly, Herbert I. Kurtin, Betty J. Lee, Irving M. Marguilies, Bernice J. Markowitz, John S. McLaughlin, Phillip T. Mintz, Christine S. Opolos, Roslyn Perluck, Robert R. Roalef, Anita M. Schulz, Jerrold M. Seehof, Evette Seidman, Shirley M. Simmons, Irving M. Sokol, Walter F. Sonderman, Patricia Stark, Herman Steinberg, Jacob Tanenzapf, Alfred Zalon, Henry Zelwian.



Cooper Union

Divisions

Green Engineering Camp

"The development of an all-year round camp . . . will give our students an opportunity to obtain a physical and social balance to their intensive intellectual activities, a balance difficult to achieve in most metropolitan colleges." This quotation from an Annual Report very adequately describes the reason for Camp Green's existence. It has also turned out to be an accurate prophesy for the camp has become the balancing power that it was meant to be. Its great popularity is proof of its success and of the need of students for a place to relax.

The now rather extensive camp was founded in 1940, with a grant of 151 acres and some twenty buildings by Mr. Norvin Hewitt Green, and was officially given the name "Green Engineering Camp." Professor Edward S. Sheiry was appointed professor-in-charge and Harry S. West was employed as resident superintendent. An extensive building program was inaugurated and gradually what we think of as Camp Green emerged—the present student lounge, drafting room, and kitchen from an old hay barn and the large dormitory from a three story barn. Mr. West's residence and quarters for kitchen staff were made from other converted buildings.

By 1942 another 625 acre strip, which was ideal for surveying problems, was leased to the camp by Mr. Green. The buildings were further improved and mounted animal heads were put in the main lodge. Each year saw the addition of land or buildings or some other sort of improvement until at present the camp has over a thousand acres of land, the administration building and Erskine lodge for

week end groups, and the large dorm for school sponsored surveying and sketching trips.

In the first few years of its existence the camp was mainly used for orientation and surveying sessions. As such, it was of principle interest to the engineering students. As facilities were expanded, the general use of the camp for student initiated groups from the art and engineering schools increased steadily. This change was brought about under the guidance and administration of Professor J. Merriam Peterson, who was appointed as professor-in-charge in 1943.

The present system of mixed weekend camp trips was made possible by the opening of Erskine lodge for weekend groups and a food buying system whereby Mr. West purchases the food for the camp trips. The food buying saves the camp leaders innumerable headaches and encourages students to form camp groups.

The large groups have caused several changes to be made recently. The station wagon, whose capacity was 18, (and at times carried over twenty in a happy tangle of arms, legs, bodies, and baggage) and was sometimes affectionately called the "geep wagon," has been replaced by a nice, large modern bus for carrying the campers from the railroad station to the camp. The large red leather couch that could always have an extra person squeezed on no longer faces the fireplace in the lounge. A smaller more sedate couch has replaced it. Modern furniture and several bridge tables have been added. But still, there are the antlered deer heads (which always bring forth the old saying "like a moose needs a hatrack"), the balcony library, and best of all, the cavernous fireplace that has warmed more Cooperites than can be counted. Evenings are spent dancing or relaxing or playing charades before the fireplace. However, there is a curfew time at midnight now, and, at that time (well, maybe a little later) the boys and girls-must sojourn to their respective habitats.

In warm weather the days are spent playing baseball, football and other outdoor sports. The excess of snow this winter made all lovers of winter sports at Cooper happy when they went to camp but it had its adverse effect. Low temperatures and low oil supplies caused the uniform of the night to be long woolies under pajamas, four or more blankets (depending upon whether the person sleeping next to you were weaker

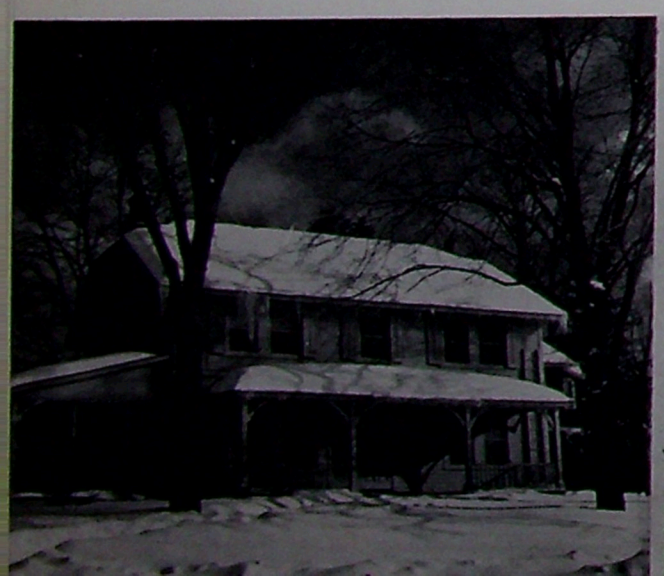
Peterson

than you were), and a woolen cap pulled down so that only your nose was showing. At one point the oil level was so low that camp trips had to be canceled, but the campers bounced right back as soon as the weather permitted.

However, the camp has its more serious uses too. Orientation camp is usually held for the engineering freshmen immediately preceding their first semester at Cooper Union. It serves as a period for the class members to get acquainted with each other, the faculty and instructors, and the facilities the camp has to offer. The few days of mental relaxation and physical exertion have an excellent calming effect for young people starting in on a new phase of their educational life. Upon completion of their first year of school the entire class returns to Green Camp for a period of approximately two weeks for a surveying practise course. They learn the use of surveying instruments and are taught topographic mapping. The civil engineering students return in the following years for more advanced courses in surveying.

The art school also sponsors a summer landscape painting course for art students who can qualify. The selection is based on the students' scholastic standing, work habits, and deportment. The course is usually given in the period just after the art school recess starts and before the engineering surveying camp is held. Outdoor exhibitions have been held at the termination of the course. Residents of the community hav been invited to these exhibitions. This has been an aid in creating community interest in the camp and in making for cordial relations between The Cooper Union and the community.

The most recent major work done on the camp facilities has been the rehabilitation of Erskine lodge, thanks to the seemingly unlimited generosity of Mr. Norvin Hewitt Green. No longer is it a dreary looking farm house. An exterior and interior paint job and redecoration have given it a much needed face lifting. The small dorm and individual rooms increase its sleeping capacity to eighteen. There are two sitting rooms and a lounge. The lounge, with its comfortable furnishings, radio, and fireplace, make it strong rival of the main lounge.



Another recent addition to the camp is a firing range built by the rifle club. In addition to using the range for firing during the year for themselves, the club encourages freshmen at orientation camp to fire and in that way gains many new recruits for the club and future members of the varsity rifle team.

The camp has not reached its peak by any means, and there are several committees studying and working on proposals for further additions to the camp. Of interest to all students are tentative plans for a swimming pool. The Young committee has been conducting a survey for a proposed eight week program for all day engineering students at the end of their first year's work. For this program a machine shop, class rooms, and additional living space would be needed. Thus, it can be seen that Camp Green will continue to play a more and more important role in the scholastic and social life of the Cooper student.

LIBRARY

Berninghausen

In a letter from Peter Cooper, accompanying the Deed of Trust, there is a paragraph about the Library: "In order most effectively to aid and encourage the efforts of youth . . . I have provided for a reading room and literary exchange . . . the walls of which are to be arranged for the reception of books . . . and other objects of interest." With these instructions in mind, the Trustees made plans for the first free reading room and public library in the city of New York.

The Library's original function as a free reading room especially for the use and instruction of the general public continues today. Many visitors increase their knowledge of the forum lecture subjects by visiting the Forum Book Shelf. The library receives about 1,300 periodicals and United States Government publications, and is the only library in New York where out of town daily newspapers may be consulted. Also, it maintains one of the finest collections in the city of current and back number periodicals, a valuable aid to researchers and students, since most of these 700 magazines and newspapers are not easily available elsewhere.

The library is divided into four sections: the Main Reading Room; the Engineering Library; the Art Library; and the Museum Library, comprising a total of over 125,000 volumes. All of the divisions of the library have expanded rapidly and have been completely reorganized recently under the direction of Professor David Berninghausen and the literary staff. With the recent construction of new bookshelves, the Engineering Library occupies nearly half of the main reading room. The Art School Library was moved into new modern quarters last summer. On the seventh floor there can be found a large book and periodical collection in the field of art.

One of the most overworked phrases in higher education is that the library "is the heart of the college." Through its library service the Cooper Union lives up fully to this statement and through the library, Peter Cooper's aim of contributing to the education of the public is most fully realized.

MUSEUM

Hathaway

When Peter Cooper envisioned his great institution for "education and recreation" he reserved space for a museum for the exhibition of mechanical devices and for a cosmorama where the visitor would find scenes of foreign lands. The only public place of artistic showing in New York at that time was the annual mechanical exhibition at the American Institute at Third Avenue and 63rd Street. However, the Cooper project was laid aside when the funds were found to be insufficient.

Yet the plan never died and it was due to the initiative of the versatile Hewitt sisters that the present museum was founded. The Hewitt sisters, Sarah and Eleanor, accomplished musicians and business women, had from early childhood developed an intense interest in the arts of decoration. When only sixteen, they purchased half of the famous Jervis Collection of Textiles. It now forms a valuable addition to the Museum's Collection.

It was after a Paris visit to the Musée des Arts Décoratif that the Hewitt sisters resolved what type of museum they would try to institute in The Cooper Union. Like its prototype, the Musée, it would serve mainly manufacturers and designers who would look for new ideas, and like the Musée, it would have a large research library and desks where copyists could work. After acquiring room from the Trustees in 1895 the sisters started the Museum on its way. The Directors of the Musée at Paris personally selected a complete series of decorative casts of the best French periods. Many wealthy dealers and manufacturers came forward with unsolicited help. Mr. J. Pierpont Morgan, while in Europe purchased the Badia Collection of Barcelona, the Vives Collection of Madrid, and the Stanislas Baron Collection of Paris. The Cooper Union Museum, by acquiring these textiles jumped to the rank of the world-renowned South Kensington Museum in England.

This year, the Museum begins the fiftieth year since its official beginning. But it intends to wait one year and have a joint celebration with the 90th anniversary of the Cooper Union. Today, the friends of the Museum, who subscribe to membership upon the payment of dues, and various private individuals, companies, schools, and also labor unions, continue to donate works of art and design to this truly fine segment of The Cooper Union.

Mattingly

FORUM

Since the founding of the Cooper Union in 1859, the Great Hall has played a prominent part in the intellectual advancement of the people of New York. Many distinguished scholars, scientists, artists, and statesmen have spoken in the great auditorium. Eighty years ago, the series of evening forums was inaugurated and for forty years the forums were conducted under the auspices of The Cooper Union and the People's Institute. However, since 1937, the Social Philosophy Division of the Cooper Union has assumed sole responsibility for the Forum.

For the past two years, the guiding hand behind the Forums has been Dr. Garrett Mattingly, Head of the Social Philosophy Division. Widely known as an author and historian, he has arranged a program of lectures that cover fields of knowledge which are currently of vital importance.

This year's Forums were divided into three series of lectures. The first series, "The New World of Physics," was presented on Tuesday evenings. This series was auspiciously begun by Dr. James B. Conant, President of Harvard University who spoke "On Understanding Science." At subsequent weekly meetings, research in the expanding sciences of Astronomy, Aviation, and Seismology was discussed by specialists in the fields. Several meetings in the series were devoted to atomic energy research and its important role in the future.

The Sunday night series entitled "Swords Into Ploughshares" was concerned with the social and political crises of the post-war world. Competent analysts reported their fresh observations and estimated the degree of progress toward a peaceful world in the various theaters of economic, political, and social tension. The series of lectures given on Friday evenings dealt with popular unfounded phobias and superstitions. Well known explorers, psychologists, magicians, writers, and historians spoke on unreasonable prejudices and superstitions that are sometimes amusing and sometimes constitute serious obstacles in the way of progress.

Following the lecture, it was customary to have a period for questions and free discussion. This was, of course, in line with the tradition of broad-minded intellectual inquiry of The Cooper Union Forum that has made it an agency for public enlightenment for eighty years.

Athletics

Athletic Awards

PLAYER OF THE YEAR AWARD

Fred Horn

Basketball

MAJOR "C"

Al Greenberg
Ed Hilzinger
Bill Hoest
Fred Horn
Arthur Kaplan
Dick Keates
Gil Marin
Walt Nazarawicz
Fred O'Driscoll
Sol Shapiro
Louis Trakis
George Veder

MINOR "C"

Harry Bernstein
Norm Epner
Stewart Furman
Alex Katz
Jordan Steckel

Yacht

MAJOR "C"

Fred Horn
Charles Lillin
Edward Mante
Jack Meienberg
Ed Trunk
George Wrage

Rifle

MAJOR "C"

Carl Apsley
Archie Boscia
Herbert Cohen
Robert Infantino
Logan Ingram
Robert Kalin
Donald Reiser
Frank Reynolds
Robert Ronchetti
Edgar Schmidt
Thomas Sherrier
Herbert Weidner
George Wrage

MINOR "C"

Harold Kleinman

Fencing

MAJOR "C"

Warren Bohl
Peter Hofmann
Jack Malek
Martin Olanoff
William Wirfel

MINOR "C"

Frank Magro

Athletic Association

Top row, L to R: D. Gross; F. Horn; T. Trujillo; S. Hirsch; *Second row:* H. Wagner; N. Epner; S. Shapiro; H. Weidner; R. Sheridan. *Front row:* B. Fisher; E. Wachspress; Prof. J. C. Hollinger; H. Silfin; E. Greenberg.

The Athletic Association has successfully completed its second big year at Cooper. During the year it sponsored four regular varsity teams, initiated two new clubs, and conducted six intramural tournaments. The hardworking officers of the A. A. during the school year were President Howard Silfin, Vice-President Danny Gross, Secretary Tom Matcovich, and Treasurer Don Pearlman.

The season started with the Fall Yacht Regattas. As winter came, the Rifle and Basketball teams started competition. A small fencing squad also took to the field with a measure of success. To encourage more students to enter intercollegiate competition, a Table Tennis Club, and a Track Club were initiated. It wasn't long before the Table Tennis Club fielded a team that played in the Metropolitan Intercollegiate League.

To accommodate the vast majority of students who could not enter varsity, a large intramural program was conducted. Volleyball, basketball, and handball games were played at the Church of All Nations, bowling at Bowl-Mor Alleys, paddle tennis in Cooper Square, and softball at various Park Department fields.

A fitting conclusion to the last school year was the annual All-Sports Dinner. At this dinner the various athletic awards for the year were presented, and officers of the A. A. were installed for the ensuing school year. This stag affair was one of the outstanding social events of the school season.

For next year, the A. A. is attempting something new in the school. Since most social events are planned for the conclusion of the school year, the Association is planning an event to be held at the beginning of the school year in September. The occasion will be a Field Day, Picnic, and Dance at Green Engineering Camp. Transportation will be by chartered bus.

Basketball

Standing, Coach Tobey; *Seated, L to R*: A. Kaplan, D. Keates, G. Veder, F. Horn (hidden), E. Hilzinger, J. Steckel, H. Bernstein, L. Trakis, S. Furman, F. O'Driscoll. *Standing:* S. Shapiro, M. Hausner, A. Greenberg, A. Katz, F. Hoest, W. Nazarewicz.

For the first year since 1942, a Cooper Union varsity basketball team saw action and despite their inexperience, the hoopmen managed to rack up an astonishing 8 won—6 lost record.

An appreciable amount of the credit for the team's success is due to the team's coach, Dave Tobey. Not exactly new to Cooper Union (having coached powerhouse Cooper teams back in the '20s) Coach Tobey molded the green fifteen-man Cooper squad into a smooth working hoop combine that rattled many of their higher rated opponents.

After selecting the squad from the fifty applicants back in October, Coach Tobey put the boys through an intensive three nights a week schedule at Stuyvesant High School. By scrimmaging among themselves or with outside teams, the Coopermen quickly learned their basketball fundamentals. The early workouts were no coach's dreams. Luckily no injuries marred the pre-season practice sections despite Louie *"the wrecker"* Trakis' innocent efforts. Meanwhile George Veder's southpaw backboard rattling heaves and Stu Furman's rhumba style of dribbling slowly succumbed to Coach Tobey's skill.

After their debut win against the Alumni, the team showed surprisingly no sign of tenseness or nervousness in their games. Undoubtedly, the most memorable game of the season was the near upset of the highly favored Pratt quintet. With the opening five of Nazarewicz, Horn, Marin, O'Driscoll and Keates, the *"maroon and gold"* matched point for point the scoring of the galloping Pratt hoopmen and emerged with a twenty-seven to twenty-six halftime lead. Eight quick points by Pratt opened the second half and put Cooper behind 43-27. But the resourceful Coopermen slowly hacked away at the lead and cut it to two points. Tragedy in the form of five personals to Marin and Keates enabled the speedy Pratt five to sew it up in the final minutes to win 59-49. In the locker room after the contest, Coach Tobey remarked that it was "undoubtedly the best game of the season. There's really nothing I can tell you fellows—you fought hard and played well!"

Another contest that had the spectators wild to the end was the N. Y. Aggie game. Leading 48-46 with 50 seconds left to play, the Coopermen saw the game tied and then lost as the winning Aggie basket swished the nets with two seconds remaining in the game.

The amazing "Freshmen" record of the team was scored despite threats of scholastic ineligibility, mile-long courts which the team was not conditioned for, and the ever present Cooper homework. Even a marriage intervened to deprive the team of Bill Hoest's services in the Queens game (Congratulations, Bill). Aiding in the morale department, however, were the post home-game jamborees at Louie's joint that drowned all miseries in beer, women and George Veder's melodic crooning.

High scoring captain Walt Nazarewicz, with 181 points, big Gil Marin with 168, Fred O'Driscoll with 106 points and Dick Keates, the player of the year, with 93 all return next season. With the loss of only Lou Trakis, the prospects for the seasoned Cooper basketeers look encouraging for next season.

Alumni	29	*at*	Cooper Union	61
New York Aggies	50		Cooper Union	48
Cooper Union	75		Juilliard	56
Pace	57		Cooper Union	52
Cooper Union	41		Brooklyn Poly	76
Cooper Union	42		St. John Pharmacy	32
Cooper Union	49		Pratt	59
Cooper Union	56		Brooklyn Pharmacy	49
Juilliard	42		Cooper Union	62
Cooper Union	58		Brooklyn Cathedral	49
Brooklyn Pharmacy	50		Cooper Union	60
St. John Pharmacy	32		Cooper Union	50
Cooper Union	40		Queens	53
Yeshiva	65		Cooper Union	59

Yacht

Left to Right: M. Zellermeyer, A. Shore, M. Wolf, C. Lillin, A. Canell, E. Trunk, F. Horn.

A strange paradox—a yacht club without a boat, on land-locked Astor Place!

Nevertheless, the Cooper Union Yacht Club, founded in 1945 by a few enterprising sailing enthusiasts has prospered and grown in the fertile environment of Cooper Union until now it owns two racing dinghies as well as one of the best competitive records of any varsity sport in Cooper.

Officially recognized by the school in December of 1945, the C.U.Y.C. was accepted as an associate member into the Intercollegiate Yacht Racing Association in February 1946. Horn and Margulies were sent to City Island for the Middle Atlantic Associate Member Championship and our two skippers wrested the silver trophy from Drexel and Lehigh.

The Yacht Club was on its way. During the next six months the C.U.Y.C. was the talk of the college. Under the able leadership of Ted Snyder, it sponsored an exhibition in the Student Lounge and a splash party.

Largely through the efforts of Professor C. H. Young the yacht club went nearly unscathed in the schoolwide reduction of financial support by the Athletic Association. The Alumni Association raised $1,000 for the construction and maintenance of three racing dinghies and for their upkeep for three years. A quarter scale model was first built correct in every detail. This was exhibited widely throughout the school and contributed to the popularity of the club and its association with the get up and go spirit. Now the first full sized boat has come off the molds and hit the water in April.

The club has had rough sailing at times but the Cooper yachting enthusiasts have found the keen sportsmanship and the pleasant fellowship of the members a tonic for the somewhat drab life on Cooper Square.

Those smiling faces that you have been seeing around the school this past year have probably belonged to members of the rifle team. These boys can well afford to be happy and gay for the team has a professional worrier, their manager, Herb Weidner. Under his expert guidance, the rifle club has grown to 26 spirited and fully paid members.

Every Friday night the boys and girls get together at the range at Brooklyn Tech H. S. and fire away for all that they are worth. After the ten P. M. cease fire order the gang usually retires to their restaging area located in a corner of Byrne's Bar. It is at these sessions that Captain Herb Cohen has distinguished himself for his uncanny ability to locate pretzels and potato chips. Medals for valor should also be passed around to ex-manager Howie Silfin, assistant manager Carl Apsley, Bob Kalin, President Logan Ingram and Tom Sherrier.

In this, its second year of operation, the rifle team has travelled far and wide to challenge the long established rifle and R.O.T.C. teams of C.C.N.Y., N.Y.U., Brooklyn Poly, St. John's, Columbia and Fordham. New additions to the team who have shown promise in these tours are Bob Ronchetti, Ed Schmidt, George Wrage, Don Reiser, Frank Reynolds, Archie Boscia, and Bob Infantino.

In addition to their shooting activities in school, the Rifle Club also constructed a log cabin at Green Engineering Camp. Inspired by their popular faculty advisor, Professor Henry "Chainsaw" Hope, the team members expect to hold their cabin-warming party next fall. The cabin will be used to accommodate the team members on their weekend practice sessions at the Camp Range that the Club built a year ago.

Rifle

Top row, L to R: R. Infantino; R. Ronchetti; A. Boscia; G. Dombrowski. *Second row:* D. Reiser; W. Phillips; H. Weidner; H. Silfin; G. Wrage. *Bottom row:* E. Schmidt; H. Cohen; Prof. H. B. Hope; J. Apsley; F. Reynolds.

Fencing

The Fencing Club resumed activities last year and now has formed a Varsity Team entered in intercollegiate competition. Six men comprise the present squad but the goal for next year is a complete team with three men in each weapon—foil, epee, and sabre. Warren Bohl, star performer and team captain, shows proficiency in all three weapons, while Marty Olanoff and Jack Malek specialize in foil and epee. Frank Magro is most promising in sabre, which is also fenced by Peter Hofmann and by Bill Wirfel, who manages the team.

Expert instruction is given all members of the club by Mr. Harry Lucia (who also coaches the team). Both the coach and his brother, Mr. Edward Lucia, who tutored the club earlier, are graduate fencing masters from the school of Giorgio Santelli, U. S. Olympics Fencing Coach.

If the zeal of the club members is supported by student attendance at matches and by increased participation at practice sessions, fencing will again become as popular at Cooper as it has been in the past.

Table Tennis

Despite the lack of adequate practice facilities and a microscopic knowledge of the team on the part of the general student body, a handful of table tennis enthusiasts banded together in the Fall of 1947 and assumed the title of "The Cooper Union Table Tennis Team."

Of the four stalwarts who began this crusade to make Cooper known and feared among intercollegiate ping-pongdom, only two remained at the end of the fall term. In order for the team to continue to function, new talent had to be uncovered.

The main prop and number one man of the team was Dave Charney, 2DA, an unfrocked engineer, who saw the light and was converted to the art school. Charney, an experienced performer, has competed in United States Table Tennis Association tournaments, and ranks high among the list of intercollegiate players.

Morty Rollnik, 1DA, was developed on the home grounds, and shows promise of becoming a stiff competitor. He did not have any previous varsity experience, but did not allow this fact to frighten him under any tables.

Cheerleaders

With the coming of intercollegiate basketball to the hallowed halls of dear old Cooper Union, there was felt a need for some pulchritudinous females, in the capacity of cheer leaders, to stir Cooper's stalwart spirit on to victory.

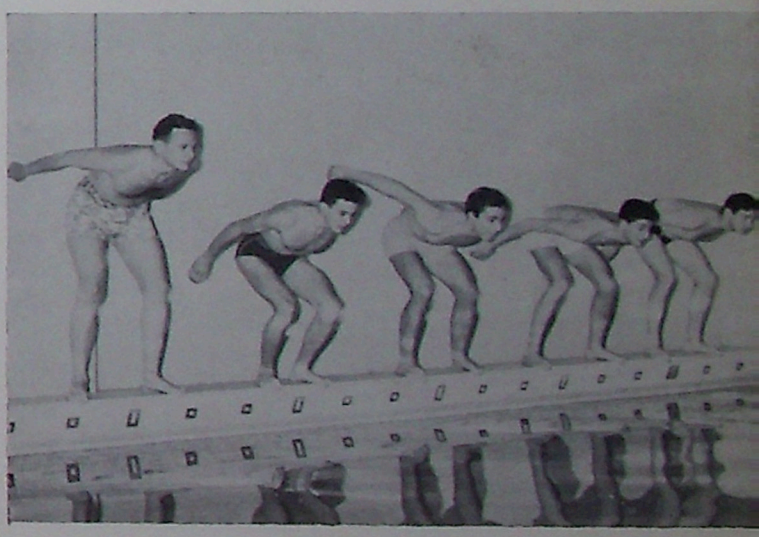
Ah yes—the spirit was weak, but the flesh was willing! Then along came Cooper Union's answer to Jane Russell and Hedy Lamarr, three little girls in gold skirts and emblemed maroon skirts—Winnie Fitch, Frankie Favuzza, and Shirley Jahr. Immediately a spark developed—onward and upward galloped our men spurred on by such soul-stirring cries as "Noble Maroon and Gold, rah!!" and "Yeah, Cooper!" These charming young ladies periodically raise the roof of the school practicing for each week-end's game. Of course this entails shouting, yelling, screaming and jumping up and down. Can't you picture this scene—delicate, flower-like young things losing their feminine charms (sort of)? But do they complain? No! Indomitable, unquenchable, they force C. U.'s basketball team on to feats of greater and greater glory!

Aquatics

Aquatics at Cooper Union include a wide range of activities varying from serious instruction in life-saving to just plain fun. All classes and student activities are run by the students and Prof. Hollinger. Life-saving is taught by Arnold Tepfer, advanced swimmers receive instruction from George Sicular, and Prof. Hollinger handles beginner groups.

The activity of the aquatic division that gathers the greatest following is the semi-annual splash party. This is the only time that the male and female students can "splash" water on each other without being expelled. Stunt races are indulged in and the art schoolmen fight the engineers for laurels in the various speed races. After the swim, the evening is completed with dancing to the tune of big name bands--on records furnished by the dance club.

In addition to the regularly scheduled aquatic events, the pool is available to any student desiring a swim. The ease with which the pool's facilities are reached, the informality of the gatherings, and the relaxation obtained from swimming make aquatics popular among Cooperites.



handball . . . bowling . . . basketball

Intra

By offering Cooper students the opportunity to participate in a great variety of sports, the intramural sports program has provided a sturdy backbone to the Sports Scene at Cooper. During the school year, hundreds of students have found many hours of relief from the grind of school routine by competing in intramural tournaments.

For the first time at Cooper, the Athletic Association planned to give awards to the winning teams and to those individuals who excelled in their particular intramural sport.

Holding part of the sports interest last Spring, while the softball tournament was in full swing, was the handball tournament ably managed by Gene Wachspress and Jerry White. Fourteen doubles teams performed on the outdoor courts across from the Church of All Nations.

Ted Aster and Leon Hattem, sophomore CE's, captured the honors with an undefeated record sewing up the championship with a decisive 15-8, 15-8 triumph over Wachspress and White, freshmen tournament managers.

Sporting a varied and assorted selection of straight balls, hooks and curves, seventy-five of Cooper's bowling artists battered unmercifully at Bowlmor Alley pins in an attempt to walk off with the attractive prizes offered by the Athletic Association. Outdoing last year's round robin tournament, this year's tilt proved to be better played as well as more spirited. A great deal of credit is due to Tom Matcovich, 2nd Yr. EE, and P. Zachmann, 1-DE-1, who provided the best tournament managing job seen around Cooper in a long time.

Ten teams entered the fracas with the ODP Maroon team capturing top honors, with an 18 won, 2 lost, record. The winners were led by high average men Ed Norman, Bob Frank, and Oscar Taccogna. Prizes were also given to the high average, Polyn, ASCE, 166.7, the high daily set, Mueller, ODP Gold, 386, and the high game, Frank, ODP Maroon, 215.

Under the fine managership of Tony Trujillo and Jack Meienberg, the intramural basketball tournament began this year with a great deal of anxiety and interest. With the reappearance of varsity basketball, many hopeful individuals will attempt to use the practice and experience gained from intramural basketball as a possible springboard for making the varsity team.

The tournament proceeded smoothly with a field of 11 teams fighting furiously for the winner's prize which was captured last year by ODP. The surprise team of the tournament was a strong Freshman Section 4-5 team. Other teams who gave outstanding performances were the 3rd year EE's, LSK and the single Art School team.

A novel feature incorporated in intramural basketball this year was the use of student referees (Mel Smith, Stan Lazerus, Bill Haflin, and Tom Boutis) to work in conjunction with the regular referees at the Church of All Nations.

softball . . . volleyball . . . paddle tennis

Murals

As always, the intramural softball tournament, Spring '47 edition, awakened the latent desire of the fresh-air starved students for the wide open spaces of Roosevelt Playground or Tompkins Square. The sophomore EE's vanquished the second year CE's in the final game to walk off with the double elimination tournament and the honor attached—members of the winning team received gold medals for the victors at the A.A. Sports Dinner.

The high spirit shown at the games may well be credited to its genial, happy-go-lucky manager, Jerry Gardner. Aiding the manager were the assistant manager, Bernie Fisher, a competent umpiring staff which included "Blind Danny" and Al Greenberg, and the lovely recording secretary, Ruthie Bowden. Needless to say, the umpiring group did a thriving financial business and "Blind Danny" was able to buy a Seeing Eye.

Following the pattern set in winning the previous year's intramural volleyball tournament, the Semester 5 CE's made it two championships in a row by outclassing all opposition and finishing with an unbeaten and unblemished record. Irwin Leitner, manager, and Stanley Hirsch, assistant, ably guided the large turnout of one Day Art and twelve Day Engineering School teams through a successful season.

The winning team, though always capitalizing on teamwork, had a number of individual stars. Gil Marin's trolley-wire line drives, Logan Ingram's soft, accurate placements and Sam Erde's delayed action returns were a triple threat which the opposition could not match. Ted Aster, Les Gabrilowitz, Don Chilton, and Eli Rubin composed the remainder of the tournament champs.

The championship game between the CE's and the Semester 3 EE-2 team ended with the CE's ahead 15-11, 15-10. On the losing side Charlie Schneider, Jerry White, and Arnold Silverstein played well and kept the final game from assuming the proportions of a rout.

Of all the intramural tournaments during the year, none can compare with paddle tennis in promoting spectator interest not only of Cooper students, but also the general public. The tournament was guided by Eddie Greenberg, manager, and his capable assistant, Freddy (Muscles) Dolgon.

The highlight of the double-elimination tournament came in the final 3 sets, with the winner of 2 out of 3 walking off with the laurels. The final sets were played with tennis scoring rules and the victors, Arnold Silverstein and Jerry White sophomore EE's, won by scores of 6-4, 4-6, 9-7. The losing team of Gil Marin and Ted Aster, sophomore CE's, put up an excellent fight.

With the final volley and the conclusion of the 1947 Paddle Tennis Tournament lunch-time activity came to a virtual standstill with only a handful of hardy men and a spattering of pigeons occupying Cooper Square in the winter.

KEEP US FROM
GOING UNDER
JOIN
A.P.
CHAPEL
6th ST
ONE-WAY
ONE-WAY

ENGINEERING STUDENT ACTIVITIES

Hiawatha

On the shores of Manhattan
Stood an edifice of an institution
Institution with aged walls
On the brim of Cooper Square
With winter's snows and nights so cold
Cooper warriors brave the storm
The storm they brave of education
Through twisting forests so primeval.
Armed with brushes, paints, and oils
T squares, scales, and tracing paper
Humble warriors seek great council
Council of the truths well spoken.
Week days and nights except one only
Braves hold council in their wigwam
In their wigwam they hold council
For the hand of Hiawatha.
In their tepee are the pondering
Pondering of the Pioneer
Relating they of sports and clubs
Clubs of drama, debates and song.
Out-stretched arms extending Cable
Cable of the years' good tidings
Brought in forms of tales related
Related with aid of illustration.
Dance they go round and round
Round and round will jive dance go
Go the fires large of flame
Flame of friendship, oh so true.
And when warriors leave their wigwam
Wigwam of Manhattan shores
Leave they for camp grounds way in mountain
Mountain camp of Cooper Union.
Then all warriors shall hear her call
Call of beauteous Hiawatha
Hiawatha of great symbol
Symbol of our school so true.
Older warriors leave on the morrow
Morrow of their graduation
Department are they into the world so bleak
Black as forest of hidden fears.
Squaws and warriors bid "Aloha"
Aloha to the older council
Older council will cry Farewell

NORMAN SHAPIRO

Activities

Student Council

A suddenly revived interest in school politics marked the birth of the 1947-8 Student Council. In the pre-election campaign when the classes decided on their representatives, students were surprised to see the walls and bulletin boards covered with posters, promises, pleas and other political paraphernalia. It looked as if people were actually anxious to work in the council. Some students even thought this anxiety for work might continue after the election and result in an active student government.

They were right! Only three days after its organizational meeting, the new Council extended its voting membership to include class vice-presidents as well as presidents. This doubled the size of the Council, a move which increased student representation.

At this time, the inadequacies of the Council constitution were discussed. The drafting of a completely new constitution was suggested and a committee appointed for this purpose. It was the drafting of this constitution that occupied the Council for the greater part of the year. The constitutional committee work was followed by open readings at which all students were free to criticize and make suggestions. On the basis of the ideas presented at these open readings the Council wrote the final draft. This draft was approved by the Board of Trustees of the Cooper Union and then went to the students for ratification.

The new constitution, though far from perfect, is a long step in the direction of efficient student self-government. It is a constitution for the student body rather than for the Student Council alone, and is specific on important points such as student rights, referendum and amendment procedure.

Free student government at Cooper Union is embodied in the Student Council, which consists of two representatives from each of the classes in the school. Directly or indirectly the council has jurisdiction over all extra-curricular student activities. It is divided into parts —the Day and Night Divisions. For most matters the Council meets as one group, but each division may meet independently to conduct business which does not concern the students of the other division.

The chairman, secretary and treasurer of the Day Division filled the same positions on the Joint Council.

Panos Galidas was awarded the first certificate of merit ever given by the Council, for his excellent service as chairman during the fall semester. Upon his graduation, Jacob P. Friedman 3DME was elected chairman and served for the fall term. The Council vice-president was Fred P. Diemer 6NEE, who also served as president of the Evening Division.

Day and Evening Divisions

Council in Action

Jose Fumero 3DA who was Council secretary for one month before resigning, was succeeded by Fred Kirr, 1DE. Abner Diamond 2DA served as treasurer. The vice-chairman was Frank Kovacich 2DCE, while the Night vice-chairman was Louis Korosy 4NChE, and the Night secretary was James Graham 5NChE.

The Council this year adopted a new meeting place. Through the courtesy of Dr. Berninghausen it now meets around a long table in the periodicals room of the library. This room lends a sedate atmosphere that encourages deliberation and careful planning of action.

Student interest in the Council was constantly high, and there was standing room only for spectators at some of the meetings. The meetings are open to all students, and everyone present is free to speak.

Although the new constitution was the major accomplishment of the Council, it was by no means the only one. While the constitution was taking shape, the Council continued to get things done. It created a Calendar Committee to coordinate the dates of school events in order to prevent conflicts. This committee maintains a calendar of school events on the bulletin board. An appointment committee was established to hustle up students to fill extra-curricular positions. The inactive Pioneer Board of Control (the policy forming committee for the school newspaper) was reorganized by the Council for the first time in years. In the field of nationwide student activity, the Day Division sent Charlotte Schnapp 3DA as the school representative to the Constitutional Convention of the National Student Association in Madison, Wisconsin. The Day Division subsequently affiliated the Day School with NSA. In short, the one word that best describes the 1947-48 Student Council is—ACTION!

Cable

Sheridan

It was September, the start of the school year and the beginning of plans for the 1947-1948 Cable. The Staff got together and immediately decided that it was necessary to cleanse the minds of the editors before any work could be done. To do this, the group took to the hills and enjoyed the most glorious trip ever held at Camp Green.

Along the shores of Tzeluches at Green grew many friendships and personalities that are difficult to tear asunder. Many hours were spent trying to analyze Eddie Greenberg's feelings for Sylvia Medaisky. Even Dr. Burdell was startled, when on his surprise trip to the camp, he heard resounding ape-like yells of "Love, Love" and saw a big hulk of a man chasing petite Sylvia across the lounge. Could it be Man-Mountain Dean? But no! It was Man Mountain Greenberg exhibiting the fire man is made of. We all agree that Cooperites are lazy, but when seventeen men hopped on Howie Silfin's 1935 horse-carriage, we agreed they are not only lazy but can take punishment with the finest of American manhood. We also learned all too well the adage what those who have gone to Green know too well—that sleep at Green is a dream. It wasn't too disturbing when a tribe of Indians crept over the creeping moss in the Erskine Lodge dorm to chant the saga of Tzeluches at 1 A.M. but when it was repeated at 15-minute intervals, we knew tradition was not to be disturbed.

We all take our hats off to the most charming chaperon in the school—Teddy Martin. Without her understanding, we could not have brought our minds around to thinking about the Cable.

The home of the Cable this year was a 15x15 suite (entrance from the outside for information of those poor wandering souls who sought the office and were forced to strip when they wandered into the health office by error) that was to become the gathering place of half the organizations in the school. In an office usually knee-deep in Pioneers, the Cable managed to produce. And we have produced—copy, editors, characters and more characters!

It would be heresy if the editor-in-chief, handsome Bob Sheridan (by definition), did not head this obituary. Editor Sheridan has a corner on the market of all the luscious females in the office. He pounded a staff out of no material (we reserve the right to criticize ourselves, but we do not put up with criticism—Right, Howie? Right, Eddie? Right, Joe? Right!) and molded one of the most successful yearbooks in many years.

Freeman

"Balding" Cy Freeman, who controlled the loot, had a very different sense of humor (which was acquired by his being master of ceremonies in a Hollywood night club). He wept each time he was forced to pay for the sandwiches given the staff when they stayed late to do night work. As he has been the editor's right-hand man, he will undoubtedly be the man to fill the position next year.

Harrison and Rubin (in alphabetical order) were the literary connoisseurs to whom the students owe their condolences for being presented with the 100,000 words in this book. It is to them and them alone that God gave a sense of literary values unequalled in the annals of literature and art.

Ben Luberoff, the only married man on the editorial staff, we are happy to state, has managed the impossible. Not only has he supervised all the photographing in this book, but he has obtained photographs from Lazerus!

Julie Simkins, the literary editor of last year's Cable, switching from the sublime to the ridiculous, became art editor this year. He has fortified Vivian Mutchnick's shoulders to the point where she has done an excellent job of the art work and he has been clever enough to train Vivian to do the work so well that she will undoubtedly act as art editor next year. Vivian and Betty Waldman, a capable assistant and an excellent artist, are beautiful, quiet girls with the spirit to lift a mountain which includes the discouragement of all the over-anxious beavers in the office who have designs on their harmony.

Many more fill the spacious spaces of the Cable dungeon. Without Joe Deare and Bernie Hillman, many graduates would be without the witticisms accompanying their picture. Vivacious Marilyn Hoffner, beautiful but quiet Henrietta Meisel, petite Rae Magasiner, and sultry Gladys Torres, have spent many hours transferring finished copy to form paper—among other things.

In May, the Cable came out, much to the surprise of the editors. The budget was even a bigger surprise to the A.P. members. And just in case anybody's interested, the guilty ones are listed on the next page.

Top Row left to right: J. Goodman, L. Schertz, J. Simkins, R. Ehrenderg, J. Lowry, D. Gross, K. Beaver, J. Eghardt, M. Lustiger, E Rubin. *Second Row:* M. Elkort, B. Fisher, J. Goldstein, V. Liebostiz, N. Epner, M. Marder, E. Oppenheimer, D. Kirchofer, T. Merkin, J. Harrison, B. Sheridan, S. Lazerus. *Third Row*: B. Hillman, E. Greenberg, H. Silfin, J. Deare, C. Freeman, B. Waldman, R. Magasiner. *Front:* T. Aster, E. Reynolds, R. Resnicow, I Hammer, E. Reiman, J. Eisenberg, I. Cooperite.

Robert Sheridan	*Editor-in-Chief*
Cyril Freeman	*Business Manager*
Jonas Harrison	*Co-Literary Editor*
Eli Rubin	*Co-Literary Editor*
Ben Luberoff	*Photography Editor*
Edwin Greenberg	*Advertising Manager*
Julius Simkins	*Art Editor*
Irving Hammer	*Managing Editor*

Art Staff

Vivian Mutchnick, Betty Waldman, Victor Liebowitz, Rita Ehrenberg, John Seneres, Lee Schertz, Jo Alice Lowrey, Vincent Silvestri, Joan Moessner, Saul Berliner, Harold Comero, Shelby Penberg.

Literary Staff

Bernard Hillman, Marilyn Hoffner, Joseph H. Deare, Chris Young, Kenneth Beaver, Bernard Fisher, N. J. Epner, Elizabeth Reiman, Hank Hirsch, Sylvia Medaisky, Gladys Torres, Rae Magasiner, Ed Glazer, Fill Goodman, Fred Housley, Ted Merkin, Norman Shapiro, Maxine Field, June Goldstein, Jackie Eisenberg, Hank Meisel, Danny Gross, Norman Perlmutter.

Photography Staff

Harry Hochstadt, Ernest Oppenheimer, Stan Lazerus, Jack Goodman, Sam Erde.

Business Staff

Mel Smith, Don Kirchofer, Irving Rosner, Peggy Reynolds, Sheldon Katz, Robert Kalin.

Literary Contributors

Murray Bornstein, J. Pincus Friedman, Marvin Lustiger, Milton Marder, Elsie Sakalien, Walt Edge, J. T. Selldorff, Sol Brody, Ted Aster, Ferd Diemer, Lorraine Feldstein, W. Hershleder, Shirley Jahr, Jordan Kass, Belle Marder, Gil Marin, Nat Pepper, Charles Peterson, Harris Shapiro, Don Weinblatt, Bob White, Ed Durbin.

Cover Design by Abe Charlip and Vivian Mutchnick.

Frontispiece by Stanley Lazerus.

THE PIONEER

The Cooper Union Student Publication

Why Anyone Stays On Pioneer They Love Each Other

The incompetent amateur journalists who besmirch the fair name of the fourth estate do so purely out of the pleasures they get from each other's company. Sin, it seems, has its own rewards. The fun in belonging to the Pioneer has nothing to do with the pleasure in seeing your work in print. It's the time spent up at Green Camp, the laughs you get out of Alphonse, the pleasure you get out of the company of a bunch of swell girls and regular fellows.

Life on the Pioneer includes the Friday night bull sessions at some bar, the kidding that continually goes on in the office, and the memorable moments that make Cooper a college, for the staff, rather than just a school.

Girls have even found husbands on the Pioneer . . . Schnapp has Klein (they're only engaged) and Pearl has Murray Greenberg. Maybe someone will even hook Hank Hirsch, Norm Perlmutter, Sam Smookler, or some other dashing Romeo.

The gang manages to spend some Saturday evenings together also, sometimes at Marvin Dean's house . . . (You're a better man than I am, Marvin Dean . . . Drop dead!) . . . or up in the Weinblatt mansion, or, if they're afraid of the Bronx, at an alumnus' house in Manhattan (usually Walt Landauer's). Tommy Seldorff even had some of them up in Mamaroneck.

Early in the fall, they go on Sunday hikes and picnics. In the summer, some of the girls hold open house, extending dressing room privileges, out in their Rockaway retreat. The fun is year round, admission a desire to have a good time.

Best of all, in between the good times, the Pioneer gang manages to put out a paper they're proud of. But that's another story!

Meet The Pioneer Staff The Heroes and Heroines

The editors get all the credit for a good issue and most of the blame for a bad one. To hear them tell it, they do all the work. But now it can be told, the stories of unsung heroes and heroines who are on the staff and who really put out the paper.

The masthead lists a makeup and production staff. Don't believe it. The morale staff consists of Audrey "Girl Type" Ashton, as pretty a Brooklyn woman that ever came to Cooper Union, Jackie "Hubba Hubba" Eisenberg, New Jersey's gift to man's desires, Rae Magasiner, another lovely lassie from the night school, and Rene Kirschner, a comely gal representing the day school . . . our hearts are too weak to continue, but you

(Continued on page 112, Col. 3)

How the PIONEER Is Published The Most Amazing Story Ever Told

An amazing thing has happened every other week. Somehow or other, that mess that was trampled on the floor by a howling mob was transformed into a printed (sometimes) coherent newspaper.

. . .

For a week prior to publication the Editor-in-Chief has been begging the editors to post assignments. A day or so before the deadline, assignments go out. Around ten o'clock Friday night somebody walks in, asks for paper, scribbles a word or two, and walks out. . . . That's the staff.

Then in troop the typists. They're such sweet, pretty girls that the editors decide to neck. Nobody can read the copy anyway! After getting nowhere, the editors

(Continued on page 112, Col. 2)

Top row, L to R: B. Fischer; C. Freeman; E. Greenberg; S. Kugler; G. Dombrowski; J. Friedman; S. Brody. *Second row:* B. Warshofky; L. Naphtali; B. Comninos; R. Boxer; B. Honig; I. Hammer. *Third row:* J. Turtil; N. Perlmutter; D. Young; D. Weinblatt; H. Hirsch; S. Smookler. *Front row:* R. Magasiner; M. Hoffner; S. Medaisky; J. Eisenberg; E. Sakalian.

As Editor . . .

I want to take this opportunity to single out for special praise a few individuals who quietly contributed to the success of the PIONEER.

Bob White and Murray Bornstein, co-editors for the first seven issues, whose smooth organization made my task of continuing the PIONEER smoother than a new editor has the right to expect.

Dave Young, whose shrewd manipulation of the purse strings enabled the editors to completely stop worrying over whether or not to print a picture, an extra cartoon, or a six page issue.

Professor Embler, whose guidance, sympathy and readiness to stick by the editors was continually inspiring.

To the rest of the staff, editors, typists, and those who gave of their precious time to distribute the Pioneer, I wish to say that it has been a pleasure and a privilege to have been your editor.

We sincerely hope that the school has been satisfied with the paper we have put out this year. If we criticised freely, we did so from a sense of duty. We are grateful that while we have received rebuttals to our arguments we have never suffered even the threat of disciplinary action.

We can point to the The PIONEER and proudly say, Cooper Union believes in a free press . . . there it is!

Don Weinblatt

MEN: Do you spend Friday nights at home because you're so ugly girls won't have anything to do with you? Are you so stupid that you can't take part in an intelligent conversation?

Several Cooper Union men found themselves in the same boat many years ago. They therefore decided to get together Friday nights and cry in their beer about their lack of sex appeal. As time went by they began to publish a newspaper on Friday nights which they called the *"Cryinthebeer."* This eventually degenerated into the present PIONEER through a linotyper's error.

If you have nothing better to do Friday nights come down and annoy us; the present Cooper sticks-in-the-mud.

How the Pioneer Pub.

(Continued from page 111, Col. 3)

figure the girls might as well bang the typewriters for a while. Then in walk the boy friends. In a few seconds the office clears while all and sundry head for the nearest bar . . . to look at the television. It's either join the crowd or sweep the floor. The office is locked . . . and the PIONEER has been put to bed.

Next week the printer goes crazy. No copy, no cuts, can't find the advertisements, editors on his neck and in his hair.

Five days after that fateful Friday night, the day after the session at the printers, "the PIONEER is out . . . what a rutten issue." By the time the editor gets to the office, all the copies are gone. Everyone is sore because this was left out and that printed incorrectly.

Meet the Pioneer Staff

(Continued from page 111, Col. 2)

can see why Pioneer weekends at Green camp are eagerly awaited.

Some people write occasionally, for example Charlotte Schnapp when she isn't keeping K-Square Klein happy. When Herma Cohen and Silvia Medaisky stop talking about men, jobs and Rockaway they can be counted on to turn in a sprightly piece. Politicians come around also. (Lenny Belkin, who started on the Student Council, now handles the club news). Some of the other men include Sol Brody, who supplies cigarettes, when he isn't writing, and Helmuth Knapp, about the only Cooperite on the Pioneer who can count beyond ten (he takes off his shoes and does all the word and headline counts). Stan Kugler, when not suggesting improvements is invaluable as a make-up assistant.

A word for the philosophers, Sam Smookler and Shapiro. Sam's sweet smile belies his poisoned pen, and Norm's original stuff is awfully confusing as he doesn't believe in sentence structure.

That's some of the staff, not all, not the most important, not even the most interesting, but it gives you an idea.

But . . . the PIONEER is out. How? That's what everyone in the "know" wonders.

Activities Plan

The Activities Plan is the only school-wide student-financed organization at Cooper. Its success or failure is a good index of student activity, school spirit and a long list of other equally ambiguous terms.

This year the AP began with more than its usual share of headaches. In the first place, there was a large group of sophomores who felt they were swindled when they were freshmen. In the second place the administration had dropped the pledge system and the A.P. enthusiasts had to back their zeal with an immediate cash payment.

Because of the early deadline of the cash payment, the A.P. had to go into direct competition with the Registrar and the Supply Store. Regardless of what some quarters expect of Cooper students, education evidently meant more to them than enjoyment. They preferred joining The Cooper Union and buying the required text books than joining the A.P.

It did not take long for the students to realize that there would not be any A.P. Everyone of importance thought that this would be terrible. What! no A.P. at Cooper? That would mean that half the oligarchy would be just plain Cooper students again. There would be no PIONEER articles, no CABLE pictures, and no Annual Dance memories to mark the most wonderful of all years, the 1947-48 Cooper Union post-war college year. To prevent the catastrophe, drastic steps were taken. The deadline was extended, a semi-pledge system was adopted and Max Kerman really went to work.

Eventually the A.P. quota of 700 members was reached. Unfortunately, the fact that there are 700 members is no indication of a general enthusiasm on their part. Instead it is mainly a measure of the unselfish devotion of the time of Max Kerman and the effectiveness of his salesman's tactics.

After the most trying campaigns in recent years had ended the 1947-48 Activities Plan started planning the biggest social season Cooper has had the pleasure of having in many a year. The A.P. Committee was headed by Max Kerman and Pearl Katz as co-chairman, and Howard Molk and June Goldstein as treasurer and publicity director.

This year the A.P. consisted mainly of the CABLE, the PIONEER, and the Annual Dance. Besides these regular functions, the A.P. was able to run two extra dances: the Sadie Hawkins Day Dance and the Roaring Twenties Dance. In addition by co-operating with the Athletic Association, discounts were given on season tickets to home varsity basketball games. The activities of the A.P. were pleasantly concluded with a spring boatride and picnic to Bear Mountain.

Actually all of the A.P. activities were highly successful. This was a pleasant surprise to all those who have seen the almost complete lack of student support for the organization earlier in the year.

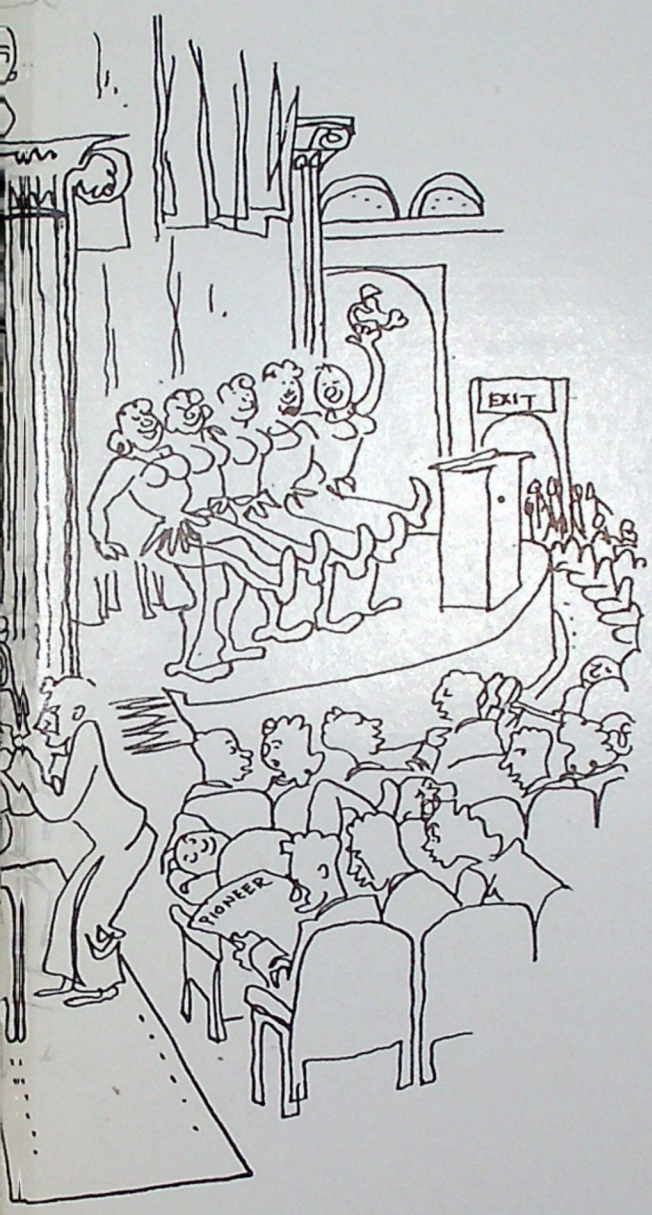
Annual Dance

After a long fanfare of publicity, the 31st Annual Dance was held at the Manhattan Center on May 22 in the Grand Ballroom. From the end of February until the day of the dance, the Annual Dance Committee pulled out all the publicity stops at its command to advertise this one, as the best Annual Cooper Union ever attended. Through posters in school and sent to the Alumni House, letters, articles and personal contact, the stage was set for a capacity crowd.

Like all activities under the AP this year, the Annual Dance Committee felt the pressure of insufficient funds, so they inaugurated the policy of selling tickets to the alumni and non-AP members. Special emphasis was placed on contacting alumni groups, stressing the reunion aspect of the dance. This idea worked out well enough for the Committee to meet its budget requirements without additional AP assistance. The Committee also had the novel experience of "changing horses in mid-stream" with Frank McClintock, *2DCE,* as chairman from October to February and John Hoffman, *3DCE,* taking over from February until May. Seems that Frank got one of those little letters from Prof. Watson's office in January and had to stick his nose back to the grindstone.

The dance started at 8:30 P.M. with Les Elgart's orchestra playing for the evening. At the door to greet the dancers were members of the Committee. With a capacity set at 2000 people, the Committee was not disappointed at the turnout. Before long, the dance floor was filled and the tables were scenes of noisy hilarity as more and more students, alumni and faculty arrived. Roaming from table to table and on the fringe of the dance floor were photographers hired by the Committee to take pictures of the affair.

The highlight of the evening was the selection and crowning of Mr. and Miss Cooper Union. The Committee decided to depart from the traditional King and Queen theme and to honor instead the two students whose physical measurements were those of the typical Cooper student.



Class Night

For the first time since the pillars were moved into the Great Hall, the students had the courage to attempt and finally produce a real live varsity musical comedy, the "Plagiarisms of 1948." It was the story of a senior engineer and a beautiful Cooper artist who fell in love. Their mutual affection suffered many threatening blows, but true love triumphed over all when the heroine discovered that her hero had obtained a $250 a week job, selling safety pins to loose women.

Featured in the show was an unusual score with words by Donald Weinblatt, Cyril Freeman, and Jack Friedman and music by Rogers, Hammerstein, Cohan, etc. The singing was performed by selected students (the only ones who could be tricked into doing it) but all turned out well because the school orchestra managed to drown out the singing.

It is impossible to give credit to all the individuals who contributed to the success of Class Night, because of the large measure of cooperation received, so none shall be given.

The entire affair started in October 1947, when Messrs. Freeman and Friedman (in alphabetical order) were appointed by the Student Council. They immediately started work on their new job by officially postponing the first committee meeting until the day before Class Night. After reconsidering, a meeting was called. Four individuals—including the classnight chairmen and an art school girl—attended. History was made that day, however, because it was unanimously decided that the 1948 Class Night should be a good one.

This major point accomplished, the details of obtaining writers, singers, dancers and actors, stealing jokes, writing a script, writing songs, staging scenes and holding rehearsals, were attended to and required four months for completion.

The 1948 Class Night was the first in which all the acts were part of one big play, as opposed to other years when a group of unrelated skits was presented. Charles Lillin's one-man dramatization of "The Villain and Little Eva" was a big between scenes feature.

It is not generally known that the primary function of Class Night is the presentation of Gold and Silver "C" awards to students active in extra-curricular activities. These awards were made by Dr. Edwin S. Burdell immediately after his customary Class Night address.

For a post-script to the Class Night performance, take a look at page 138.

literary . . . magic . . . chess . . . glee

Believe it or not we have at Cooper a club which does no talking and accomplishes a great deal. Behind its closed doors, hidden in some secret corner of The Cooper Union, the Literary Club holds its meetings for the initiated. They get together and discuss their efforts which lie mainly in two fields, the psychological short story and abstract poetry. The club's master of the short story is J. Forest Vey and their dean of abstract poetry, Lennie Slonevsky.

"Pen Tracks," a literary magazine, and contributions to "Pulse" are the accomplishments of this industrious group.

Years ago, Dr. Wilson, editor of the Sphinx, had as his motto, "Magic is an art that sometimes instructs, often amuses, and always entertains." Guided by this idea, a magic club was organized at The Cooper Union this year.

This club offers activities never available before. Members are initiated into the mysteries of sleight of hand, ventriloquism, spiritualism, mind reading, hypnotism, and also acquire a knowledge of gambling techniques. Such knowledge as safe cracking, lock picking, and a method of escaping from straightjackets are imparted to members of the club. To those of a gambling bent, controlling dice, dealing seconds, bottoms, how to cheat at bridge, poker, blackjack, and a very easy and almost legitimate method to win at gin-rummy are taught by an experienced group of experts.

Chess offers those with even a slight knowledge of the intricacies of the game a source of relaxation from the rigors of everyday school work.

Besides the regular tournaments sponsored by the club, the highlight of the season was the student-faculty chess meet in which the students emerged the victors. The teachers have promised revenge.

Last year the team entered the national intercollegiate championship tournament sponsored by the United States Chess Federation and emerged tied with N.Y.U., ahead of Harvard, Yeshivah College, Rutgers and Stevens Tech. The team members are Charles Peterson, Robert Bassemir, Herb Dropkin, Ed Feldman, Gene Wachspress, Gerry King and Milton Marder.

In November, 1947, a group of students who thought they had voices good enough to serenade the students of Cooper, formed a new Glee Club with the expressed purpose of singing Christmas carols. The Christmas season was the most encouraging time for the growth of choral activities and it has been an important factor in bringing the club to its present size.

The club provides an opportunity for all to try their voices at being a musical performer rather than a listener. At present, the club is being trained and conducted by its chairman, W. S. Homburger, and is considering expanding its activities so that the Cooperites hear more from them other than at Christmas time.

Without doubt one of the most conscientious student organizations, the orchestra has added many new accomplishments to its record of previous years. In the past, the orchestra usually undertook to provide dance music at the two or three AP sponsored dances each year. This year, the members have gone even further by foregoing the usual Saturday night pleasures in order to serenade the basketball team and fans at our home games.

By maintaining a large selection of popular tunes, the orchestra has been able to grant many of the requests at each dance, including the perennial cry of "Samba."

Progressive thought is ineffective without progressive action. With this realization a group of students, organized as the Young Progressive Citizens of America, have brought political activity to the campus. They are not content to merely discuss the problems of a postwar world; they are attempting to tell their representatives in Congress and the United Nations of their ideas on these problems.

The youth of the nation are most deeply affected by inflation and depression, discrimination in education and employment, peacetime conscription, and curtailment of civil liberties. The YPCA is rapidly becoming the voice with which the interested students at Cooper are making their opinions heard.

The prime activity of the Mathematics Club is the presentation of lectures on various general topics of Mathematics. These lectures are given by members of the club. Each member has the privilege of choosing any topic of special interest to him. The lectures serve a twofold purpose: one, to acquaint the members of the club with those phases of mathematics which are of interest to engineers, and the other, to present topics which are of purely theoretical and historical interest. Lectures that have been presented this past year have been on Approximation Methods, Determinants and Matrices, Functions of Complex Variables and Operational Methods.

In previous years, the Dance Club enjoyed the comparative privacy of the lunchroom, but when school began in September, it seemed that the students would have to forget all about dancing because of the construction work going on in the building. Fortunately, some of the more ambitious students were able to get permission to use the sixth floor lounge and the strains of the swing and sway of rhumbas, fox-trots, and waltzes drifted down the elevator shaft. The group met on Tuesday from 5:00 to 6:45 P.M. About 6:00 P.M., evening students would drop in to take a few spins around the dance floor.

orchestra . . . ypca . . . math . . . dance

Dramatic and Debating Societies

The bright lights that attract thespic moths drew a particularly large and talented group this year. With new freshman enthusiasm and some upperclass members to lend their experience, Professor Childs formed a group that had the Abbey Players looking to their laurels.

After a series of heated meetings on the selection of a play, the Elmer Rice *"Adding Machine"* was chosen. Unity and a singleness of purpose were universal and the show went into rehearsal. It was performed before the Christmas recess to great applause and favorable comment—even from the Pioneer Drama Critic.

The male lead, Mr. Zero, the arch-nothing, was played in fine form by Marvin Macnow. The woman with whom he shared to a very small degree the felicity of unbounded domesticity was well portrayed by Molla Zellermayer, and his unrequited (in this world as well as in Rice's other) love nicely executed by Vice-President Marilyn Wolf. The Machine's sets were designed by President Irwin Glusker and executed by Stage Manager Molly Zimmerman and an able crew.

The second semester's performance was *"Reading From Left to Right,"* a play by the Club playwriters Carl Fischer and Bert Lief, who last year gave us the *"Good Soldier Claudins."*

A series of impartial surveys conducted by usually unreliable sources has shown that Cooper students resemble human beings in at least one respect—they like to talk. It has been observed, that, without any provocation they will begin spiritual discussions on any subject, including the design and construction of seven-foot helical slide rules for the personal use of surrealist artists.

To divert some of this energy into the discussion of somewhat controversial topics, a small group of students has gotten together to organize the Debating Society. To start the ball rolling, Bert Lief and Charles Peterson went to Temple University taking the affirmative side of the question, "Resolved, That a World Federal Government Be Established." This debate was not judged.

The next opponent to mince words with Cooper was Columbia College. Hirschel Schwartz and Bert Lief again took the affirmative side on, "Resolved, That the Revival of the Comintern is a Direct Threat to the Security of the United States."

A third meet with Stevens Institute, which Bill Hershleder and Lief argued the positive on, "Resolved, the Presence of Communists in the U. S. Constitutes a Menace to Our Way of Life."

Mr. Caldiero, of the Humanities Department, as faculty advisor has been of considerable assistance in developing the main lines of argument used in the debates. There is also an ex-officio member, Mr. Finley of the Cooper Union Library who has helped considerably by providing the Society with material for the debates.

Activity Awards

Silver C

Cyril Freeman
Jacob Friedman
Murray Greenberg
Henry Hirsch
Arthur Klein
Sylvia Medaisky
Ruth Resnicow
Elsie Sakalian
Charlotte Schnapp
Sol Shapiro
Robert Sheridan
Julius Simkins
Howard Silfin
Joseph Turtil
Donald H. Weinblatt
Dave Young

Gold C

Kenneth Beaver
Leonard Belkin
Sol Brody
Herma E. Cohen
Levi Cohen
Harold Comerro
Joseph Deare
Ferdinand Diemer
George Dombrowski
Jackie Eisenberg
Norman Epner
Carl Fischer
Jose Fumero
Panos Galidas
Gerald M. Gardner
Phillip Goodman
Albert Greenberg
Edwin Greenberg
Daniel Gross
Irving Hammer
Stanley Haug
Bernard Hillman
Stanley Hirsch
Harry Hochstadt
Marilyn Hoffner
Fred Horn
Max Kerman
Louis Korosy
Stanley Lazerus
Bertram Lief
Ben Luberoff
Rae Magasiner
Stanley Macklis
Milton Marder
William Michael
Howard Molk
Donald Pearlman
Norman Perlmutter
Charles Peterson
Elizabeth Reiman
Eli Rubin
Arthur Schwartz
John Seneres
Norman Shapiro
James Spool
Anthony P. Trujillo
Eugene Wachspress
Henry Wald
Christian Young
Molla Zimmerman

Alumni

THE GOVERNING BOARD

Top row, L to R: G. Clark; F. Spitaleri; I. Warshaw; B. Last; J. Meltzer; S. Fine; C. Jellinek; F. Ryder. *Second row:* M. Breitman; I. Fisher; A. J. Daniels; J. U. Gould. *Front row:* A. J. Wohlgemuth; F. Caiola; P. S. Anthes.

FRED CAIOLA: *President*
WILLIAM GOLKSMITH: *1st Vice President*
PHILIP S. ANTHES: *2nd Vice President*
ADOLPH J. WOHLGEMUTH: *Secretary*
WALTER O. CHRIST: *Treasurer*
S. LOUIS MORRISON: *Editor*

The Alumni Association extends a warm greeting to the members of the class of 1948. On your graduation from Cooper Union you join a large and distinguished fraternity of men and women in the professions of art, architecture, and engineering. They are bound together by the common heritage of Peter Cooper's legacy and are proud to perpetuate the principles which he sought to realize through the establishment of the Cooper Union for the Advancement of Science and Art.

During the early 1900's, individual departmental alumni associations were founded, each concentrating only on its own field. To remedy this apparent disinterest in the activities of other graduate groups, an Alumni Federation was created. It consisted of two permanent and two annually elected representatives from each department. The Federation engineered those, and only those, activities concerning all graduates. When this arrangement proved unsatisfactory, departmental groups disbanded and one large Alumni Association was formed.

The purpose of the Alumni Association is twofold. It is to continue to make available for graduates the personal, professional and cultural stimuli provided by the school during their undergraduate years and to repay the debt they owe to Peter Cooper by contributing to the progress of the school for the benefit of succeeding generations of students.

In fulfilling this purpose, we are also fulfilling Peter Cooper's purpose in founding our Alma Mater as expressed in the Deed of Trust in the following words: "to . . . contribute in every way to aid the efforts of youth, to acquire useful knowledge, and to find and to fill that place in the community where their capacity and talents can be usefully employed with the greatest possible advantage to themselves, and the community in which they live."

Association

Our program of activities is geared to meet the needs of all our members. Along professional lines, for the engineers we have a refresher course in which they can brush up for the Professional Engineers' License Examinations. For the artists, there is a sketch class which meets weekly to do sketching from life. Regular monthly meetings feature informative addresses on timely subjects of technical or general interest, followed by a social hour. The speakers are often our fellow alumni who have achieved distinction in their respective fields. During the summer, outings to Green Engineering Camp take the place of the meetings.

The Alumni Association wants to secure public recognition of Cooper Union's achievements, raise it to a new height, and help every student or graduate into a position where his abilities are put to the best possible use, thus hoping to fulfill Peter Cooper's dream of a powerful influence in the community, able to improve political and economic conditions.

The official publication of the Alumni Association is the Alumni News, which comes out monthly during the winter (ten times a year). It keeps the members posted on the activities of the Association, the progress of fellow alumni and developments at the school.

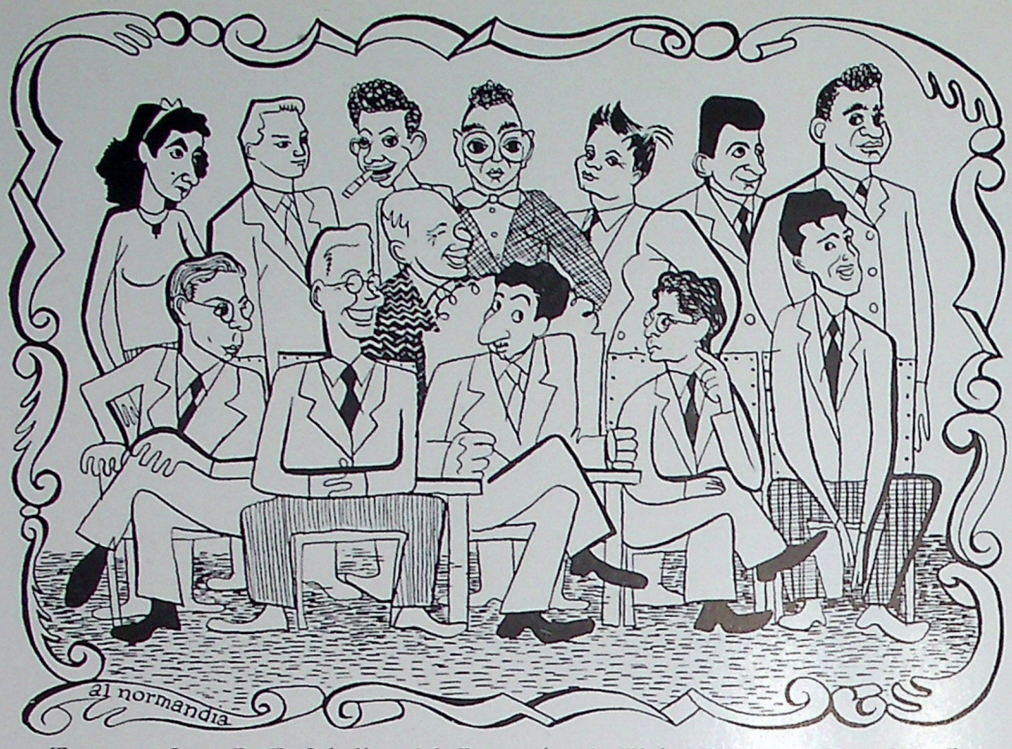
The Alumni Association Placement Bureau provides a valuable service to graduates seeking positions or better positions and to undergraduates seeking employment. It is recognized by leading industrial firms as a rich reservoir of well-trained professional people.

The club house, on West 53rd Street in mid-Manhattan, is conveniently located for meetings, lectures, or as a rendezvous with friends. It has a lounge and game room and is open to members and their friends weekdays and evenings.

The Alumni Association has experienced an unprecedented spurt in membership during the past year. With this growth, it hopes to reach a position of greater usefulness. It looks to the younger members, among whom the class of 1948 are now taking their places, for the fresh stimulus to active participation in all its functions and services to Cooper Union, to its alumni and to the community.

We of the Alumni Association welcome the class of 1948 into our ranks and their assistance and support in bringing to complete realization the hopes of Peter Cooper for a richer life and a better world.

Alphonse Normandia,
Chancellor
Bob White,
Vice Chancellor
Gil Marin,
Recording Secretary
Nathan Pepper,
Corresponding Secretary
Don Weinblatt,
Exchequer
Murray Greenberg
Hank Hirsch
Elsie Sakalian
Dave Young



Top row, L to R: E. Sakalien; M. Bornstein; A. Klein; D. Young; T. Selldorff; H. Hirsch. *Front row:* D. Weinblatt; R. White; S. Smookler; A. Normandia; N. Pepper; G. Marin.

Lambda Tau

Originally founded as an honorary society to elevate the journalistic level of The Pioneer, Lambda Tau, through the unparalleled excellence and progressiveness of its members, has come to be recognized as a unique organization, unselfishly dedicated to raising the social, intellectual, and immoral level of society, as a whole.

The election to the Chancellorship of Alphonse Normandia, to succeed the perennial Sam Smookler, debilitated by his ceaseless strivings in behalf of humanity, was strong indication that the policy of progressive realism would be continued and even augmented.

Diagnosing the sex neuroses as the basis of the turmoil in our society, Normandia, aided by a small but courageous group of stalwart liberals which included Bob White, specialist in female frustration complexes, Don Weinblatt and Dave Young, who had originally asked Dr. Kinsey to undertake his epochal investigation of sex behavior patterns, Murray Bornstein, famed cynic and author of "Intellect vs. Sex," Don Burgess, straight man for Normandia, Elsie Sakalian, aggressive sex equality advocate, Hank Hirsch, rosy-cheeked adherent of the Sinner Life, and the others, attacked the problem with characteristic vigor.

At the end of the year, humanitarian Normandia is able to report considerable success. Most significant progress was made by Murray Greenberg, K² Klein and Dave Young, who at the cost of considerable frustration, have developed strong bonds of unity with the opposite sex. Considerable tenacity was evidenced by J. T. Selldorf, Gil Marin and Nathan Pepper.

Concluded Chancellor Normandia, "This noble work shall continue. To that end, I have formed a Group for the Enlightenment of Engineering Peasants to be known henceforward as the G.E.E.P."

Top row, L. to R: E. Rubin; E. Greenberg; J. Harrison; I. Hammer. *Front row:* B. Hershleder; B. Luberoff; R. Sheridan; C. Freeman; J. Simkins.

Chairman
Robert Sheridan
Vice-Chairman
William Hershleder
Secretary
Rheita Schreiner
Cyril Freeman
Edwin Greenberg
Harold Grossman
Irving Hammer
Jonas Harrison
Ben Luberoff
Eli Rubin
Julius Simkins

Ex Post Facto

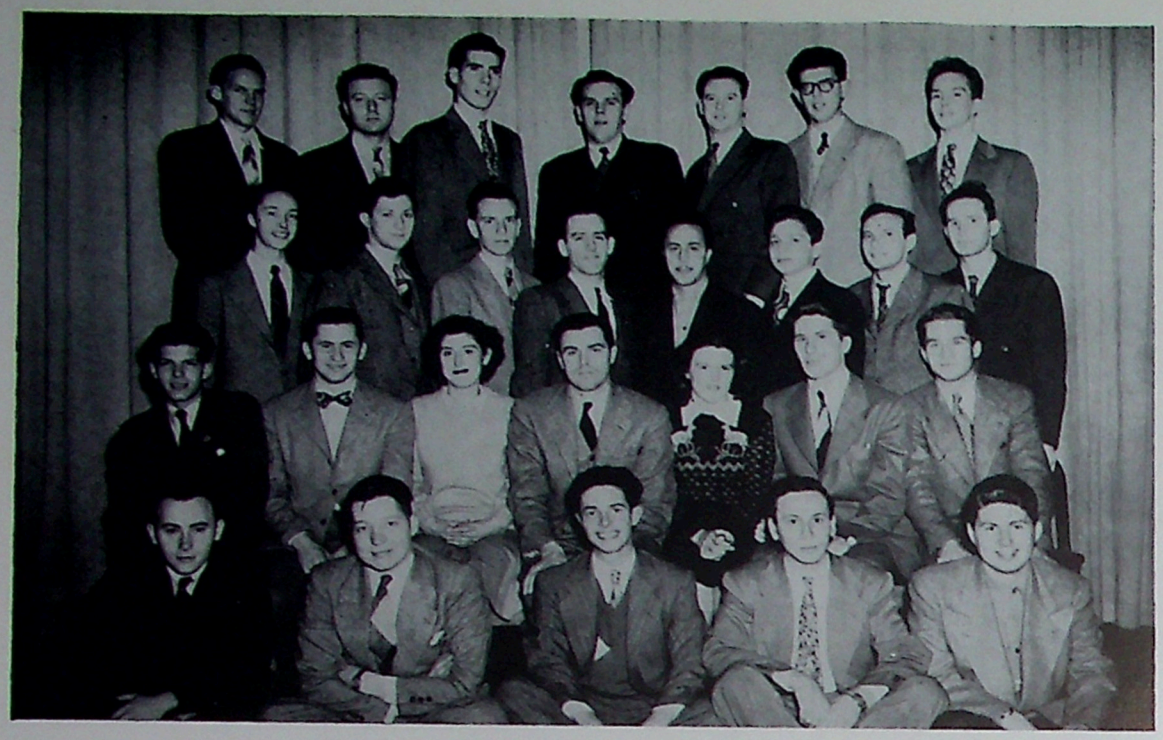
Membership on the editorial board of the Cable is requited with more than personal satisfaction the student feels in serving the school. It is rewarded with membership in Ex Post Facto, the honorary society of the Cable. Inaugurated many years ago, its purpose has been to single out those members of the able staff, who, by dint of self-sacrificing, tireless, and meritorious efforts, have carried on the principles and traditions upon which the Cable was founded in 1926.

The original intent of the founders of the society was that wearers of Ex Post Facto keys act in the capacity of guides and advisers to their successors on subsequent Cables. Little use has been made of the potentialities of the organization as staffs for the past few years have been small and composed of seniors. However, due to the present large increase in members and increased interest in the magazine, its activities will be greatly expanded.

With this as an objective, a new constitution has been drafted by William Hershleder, vice chairman, defining the membership and character of the organization.

In keeping with the high spirit of the present staff members the society sponsored parties which were intended to develop firmer relationships btween the old and new members.

Coveted keys have been awarded this year to Cyril Freeman, business manager; Irving Hammer, managing editor; Eli Rubin and Jonas Harrison, co-literary editors; Ben Luberoff, photography editor, and Edwin Greenberg, advertising manager. It will be these men who will be expected to carry to Ex Post Facto the camaraderie that they have developed while working on the present Cable.



President: G. Sicular
Vice-President T. Aster
Secretary: W. Hershleder
Treasurer: J. Gonick

Top row, L to R: A. Leonard; A. Solnick; G. Marin; R. Frank; C. Herr; G. Gardner; L. Ingram. *Second row*: H. Von Spreckelsen; T. Merkin; D. Kirchofer; R. Wengraf; L. Hatten; L. Gabrilowitz; A. Schwartz; H. Margolis. *Third row:* T. Heins; T. Aster; M. Helfman; Dr. G. G. Green; R. Bowden; B. Hein; M. Bornstein. *Front row:* A. Blumberg; D. Chilton; E. Rubin; J. Gonick; D. Taccogna.

American Society of Civil Engineers

"To promote and further the interest and standing of its members in the engineering profession and to develop a spirit of cooperative service in professional, civil, and social life for the common good of all. . . ."—the Constitution of The Cooper Union Student Chapter of the American Society of Civil Engineers.

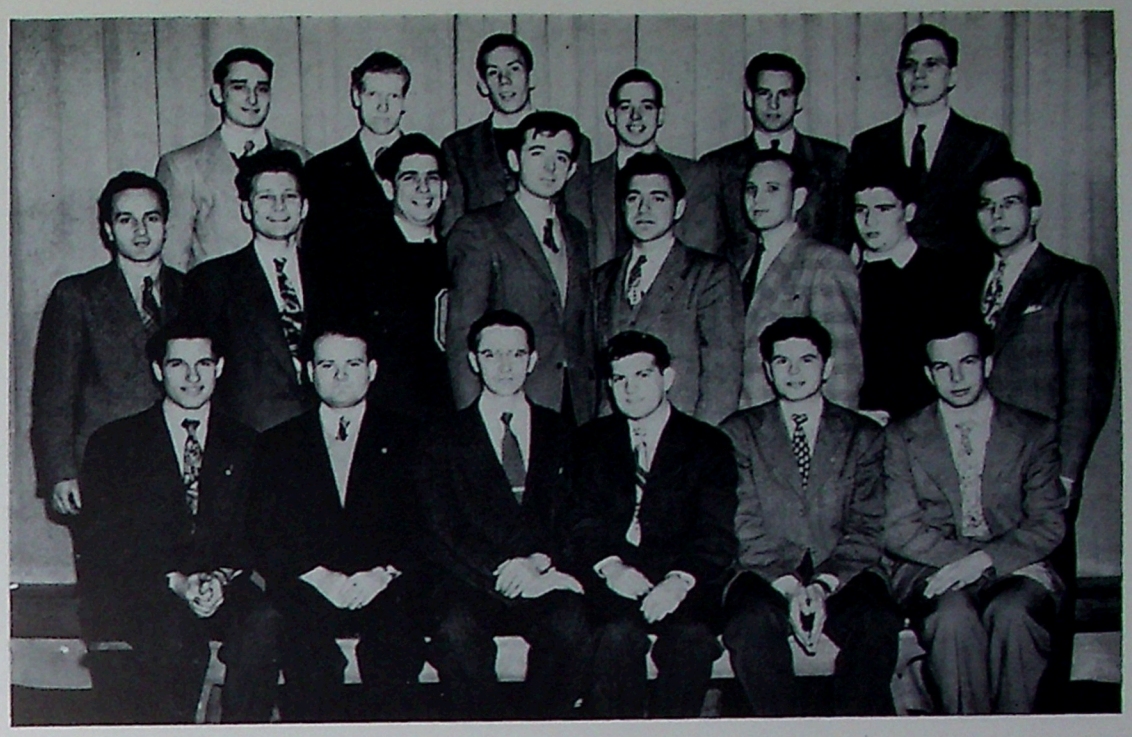
Not long ago a questionnaire was circulated among all the civil engineers in the school. One question was, "To which activities should your ASCE chapter confine itself: professional, social, or both?" The answers were with a few exceptions, *both*. And that describes exactly the function of the Cooper Union Student Chapter of the American Society of Civil Engineers in the life of the C.E. at Cooper.

On the professional side, the Chapter this year arranged an extensive series of lectures on different aspects of the profession by noted engineers in diverse phases on civil engineering work, and also sponsored a contest for student papers, with prizes awarded at the end of the year by the Alumni Association. On the social side, the Chapter's traditional activities, the Freshman Reception and the Annual Dinner-Dance, were supplemented by the Dance sponsored by the Conference of the Metropolitan Chapters of the ASCE, and by the student chapter conferences at the Annual Meeting of the ASCE.

Add to all this the *Cooper Survey*, mimeographed house organ of the Chapter, and the CE weekends at Camp Green during the fall and winter, to give a picture of an organization functioning for the professional and social development of its membership.

The Cooper Union Chapter of the ASCE owes a debt of deep gratitude to Professor Ray C. Brumfield, who resigned from the faculty in October 1947, after many years of service to the Chapter as its faculty adviser, and to his successor in that position, Professor Giles G. Green.

Student Chairman:
KARL J. ZIMMER
Vice-Chairman and Sec'y:
CHARLES ROHMANN
Treasurer:
FREDERICK L. WARNER
Honorary Chairman:
PROF. W. A. VOPAT



Top row, L to R: J. C. Apsley; S. Kugler; H. Weidner; D. Gross; K. Halbert; G. Rothmaler. *Second row:* B. Goldberger; E. Greenberg; H. Silfin; E. Schmidt; H. Hirsch; C. Freeman; J. H. Deare; R. Sheridan. *Bottom row:* B. Fisher; E. Oppenheimer; K. Zimmer; F. Warner; D. Young; B. Hillman.

American Society of Mechanical Engineers

Maintaining the role of the most active engineering society on the campus, The Cooper Union Day Branch of the American Society of Mechanical Engineers has continued to operate as a clearing house for technical papers and as an organization for social and academic functions.

The highlight of the ASME activities during the spring of '47 was the trip to the steel mills of Bethlehem, Pa. during the mid-semester recess. This trip, while one of academic interest, allowed both student and instructor to discuss common problems in a very different atmosphere—a clouded smoking car.

In May of 1947 a Cooper delegation attended the annual Metropolitan Convention held at Columbia University. In addition to having a good time and enjoying good speakers, we brought back to Cooper the third place award for student paper presentation—many thanks to Roy M. Greene.

At the first meeting of the year the following men were elected to office: Henry Wald, chairman; Robert Sheridan, vice-chairman; and J. Carl Apsley, treasurer. Professor William A. Vopat was unanimously reelected as faculty advisor of the group. Walter Sinelnick and Cathy Levanis were appointed to the program committee.

Messrs. Young and Greenberg, co-chairmen of the Annual Christmas Dinner Committee, aided and abetted by schemers Wald and Zimmer, worked diligently to insure the success of the 24th annual dinner held at Hans Jaeger's Restaurant. The dinner was late in starting, giving the ME's a chance to linger over a glass or two while chatting with classmates and instructors and familiar alumni. Guest speaker Professor Henry B. Hope contributed materially to the evening's entertainment.

Graduation of Henry Wald was the reason for a mid-year election. The following men were elected to office: Karl Zimmer, chairman; Charles Rohmann, vice-chairman; and Fred Warner, treasurer.

Peter Sichel,
President
Sol Shapiro,
Recording Secretary
Harry Hochstadt,
Corresponding Secretary
Silus Harry Cooper,
Treasurer
Kurt Peter Halbert,
Cataloger
Tore Nils Anderson
Arthur Maurice Ariessohn
Arbaham Blumberg
Murray Simon Bornstein
William Broderick
Reichert Bruckmann
Walter Edward Garrison
Roy Milton Greene
Henry Charles Hausmann
Arnold Royce Kelly
Irwin Landau
Michael Landis
John Joseph Marshall
William Ervin Meece
Meir Menes
Richard Strauss
Eric Eden Sumner
Mitchell Weiss
Walter Welkowitz
John Gerald Yago

Tau Beta Pi

Tau Beta Pi is the national engineering honorary society. Its purpose is to mark in a fitting manner both the students who have conferred honor upon their Alma Mater by distinguished scholarship and exemplary character and the alumni who have attained prominent positions or noteworthy accomplishments in the field of engineering, and, also, to foster a spirit of liberal culture in the engineering colleges of America. With the latter purpose in mind, Mu Alpha Omicron, the Cooper Union engineering honorary society, founded in 1926, became the New York Iota Chapter of Tau Beta Pi on January 11, 1947.

In the year since its national affiliation, the activities of New York Iota have shown a marked increase. Its summer tutoring program was a large success and the object of a great deal of interest on the part of other chapters. In November 1947 and in March 1948, highly successful Annual Dinners were held at which time many new members were inducted.

The National Convention of Tau Beta Pi was held in New York during October 1947. At the convention, NYI acted as the host along with the other Tau Beta Pi chapters in the metropolitan area. An outgrowth of the convention was the Metropolitan Council of Tau Beta Pi, an organization of host chapters, founded to interchange ideas and to plan social activities.

The increase in members and activities of the NYI are a certain sign of its increasing service to the school.

"A true engineer must be able to adapt himself ingeniously to all circumstances and conditions, making them conform to his purpose. . . . No man can become a worthy engineer without the welfare of his associates, his organizations, and his community at heart."—Eligibility Code of Tau Beta Pi.

Top row, L to R: A. Tepfer; G. Wrage; R. Sheridan; M. Kerman; H. Wagner. *Second Row*: D. Weinblatt; S. Shapiro; H. Silfin; W. Warshofsky; J. Friedman; L. Naphtali. *Front row:* B. Fisher; C. Freeman; A. Trujillo; B. Hershleder; D. Young; H. Hirsch.

Lambda Sigma Kappa

Lambda Sigma Kappa, from its founding in 1905 to the present, has as its basis the equality most rare among fraternal organizations—non-sectarianism. This tenet of the Fraternal Code permits the induction of brothers on the basis of character and scholarship without limitations on their race, creed, or color. The fruits of this practice are evidenced in the enviable record established by the brothers of Lambda Sigma Kappa in all phases of activity.

One of the most important events of the year to us was the series of smokers held for the freshman class. At these informal get-togethers we introduced ourselves to the freshmen, with the object in mind of selecting new members to perpetuate the fraternity and its ideals. Those selected were asked to pledge for the fraternity until they are proven worthy of membership. Because we realize that some fine men may be passed over by this selection, pledgeship is not restricted to freshmen, and a man at any time may receive an invitation to pledge for L.S.K.

During the school year, fraters and pledgees alike participated in our social and athletic activities. Teams were entered in all the intramural tournaments. Not only does L.S.K. give parties, but the fraternity has been invited as a group to parties given for us by several sororities and similar organizations of females. Every year, at least one trip to Green Engineering Camp is sponsored by the frat. Escape from work and women make the Friday night meetings a source of pleasure to the brothers.

Lately L.S.K. has been engaged in that most popular American outdoor sport—apartment hunting. For many years, and many reasons, L.S.K. has been homeless, but now at last the time has come. If we can only find some place good enough for a frat house, but not that good that the brothers will move their families in, we will have a home.

Fratres in Facultate
Prof. H. F. Roemmele
Prof. H. W. Merritt
Prof. W. A. Vopat
Prof. J. M. Peterson
Mr. S. Levander

Fratres in Collegio
William Beck
Ralph Braca
Leon Chavkin
Donald Des Jardin
Norman Epner
Bernard Fisher
Cyril Freeman
Jacob Friedman
William Hershleder
Henry Hirsch
Arnold Kelly
Max Kerman
Irwin Leitner
Murray Lester
Stanley Macklis
Leonard Naphtali
John Oxley
Donald Pearlman
Sol Shapiro
Robert Sheridan
Howard Silfin
Sol Tenenbaum
Arnold Tepfer
Anthony Trujillo
Herbert Wagner
Willard Warshofsky
Donald Weinblatt
George Wrage
David Young

Standing, L to R: H. Weidner; R. Horky; E. Trunk; J. Nolan; F. Horn; R. Frank; E. Norman; S. Krumbhoz; G. Rothmaler; F. O'Driscoll; R. Spann; A. Pawlak; G. Mueller; C. Rohmann; C. Michelini; F. Miner; C. Garretson; B. Byrne; V. Williams; M. Spronck. *Seated*: W. Coughlin; J. Chaboty; P. Parisi; J. Meienberg; T. Hein; C. Herr; A. Romagnoli; E. O. Juhl.

Omega Delta Phi

CHAPTERS

Alpha—Cooper Union, Evening.
Beta—Brooklyn Polytech.
Delta—Cooper Union, Day.
Epsilon—Brooklyn College.

ALPHA CHAPTER

Einar Asmundsson
Leon Ballero
Herman Berger
Alfred Bizjak
John Churko
Ernest Feher
John Filby
Walter Garrison
George Gawel
James Gilbert
Michael Guarrasi
Robert Hockenjos
Alexander Imre
Edward Lassen
Edward McMullin
Robert McMullin
Antonio Melchiorre
Pete Peters
Al Smith
Walter Turbiak
Nick Xikes

DELTA CHAPTER

J. Carl Apsley
Bernard Byrne
Jules Chaboty
William Coughlin
Robert Foss
Robert Frank
Craig Garretson
Theodore Hein
Charles Herr
Raymond Horky
John Hoffman
Frederick Horn
Richard Keates
Stanley Krumbholtz
Jack Meienberg
Casimiro Michelini
George Mueller
Edward Norman
John Nolan
Fred O'Driscoll
Paul Parisi
Arthur Pawlak
Charles Rohmann
Albert Romagnoli
Gustave Rothmaler
Robert Spann
Michael Spronk
Edmund Trunk
Fred Von Zabern
Herbert Weidner
Victor Williams

Top row, L to R: L. Ballero; P. Peters; E. Feher; A. Malchiorre; C. Mistron; E. Goodness; P. Beischer. *Second row*: R. McMullin; A. Bizjak; E. Lassen; N. Xikes; J. Churko; E. McMullin; M. Guarrasi. *Front row*: H. Chekenian; F. Rinallo; A. Tompos.

At the turn of the century Omega Delta Phi Fraternity was founded. A group of students at Cooper Union, motivated by the desire to strengthen the friendships made at school, were the nucleus of the organization. After five years, their success being realized, an Alumni body was established so that the graduates could devote their time to furthering the cause and allow the undergraduate members a freer hand in the chapter management.

In 1913, the Articles of Incorporation were granted to the brotherhood by the State of New York. Two years later, the original evening school body was granted a charter as Alpha Chapter of Omega Delta Phi. Since that time, the fraternity has continued to expand, with the result that it now has four chapters throughout the New York area. Beta chapter at Brooklyn Polytech was formed and granted a charter soon after Alpha received its charter. With the opening of the Day School at Cooper Union, it was befitting that Omega Delta Phi aid in student development, and consequently, in 1928, the Day School group received a charter as Delta Chapter. The last charter was granted in 1935 to a group of students at Brooklyn College, which became Epsilon Chapter. The ideals and purpose of the founders have been adhered to, and it is upon these principals that the strength of the fraternity is built.

At the beginning of the school year, "Open House" is held on several occasions for the incoming freshmen. The purpose of these receptions is to alleviate any uncertainty and set the men at ease. Alumni and upper classmen aid by talks and informal association, the men are paired at bridge, chess, pool, checkers, gab sessions, etc., climaxed by a light lunch. Thus the barriers are lowered and the newcomers made to feel at home.

On Saturday night, informal dances are held at the Fraternity House and occasionally there are stag smokers. During the year, two all-chapter formals are held. Last fall's formal, held at the Beekman Towers Hotel, was one of the most successful. The social season is climaxed in June by the annual convention.

Students are pledged for a minimum of one semester, but cannot be considered for membership unless they have completed successfully their first year's work at Cooper Union. New men are urged to consider Fraternity affiliations.

John Johl
Al Frascella
Ray Hermida
William Lindenfelser
Henry Egen
Ferd Diemer
Jim Graham
John Dewender
George Geisenhainer
Vincent DiGennaro
Martin Zenk
Louis Korosy
Robert Horton
Herbert McNulty
Joseph Swatko
Charles Gallaer
Dan Davidson
Dave Matson
William Egen
Anthony Ancona
Henry Cubberly
John Ciampaglia
John Cubero
Robert Ernst
William Herrick
Richard Parsekian
Albert Semmelroth
George Smith
Thomas Harding

Standing, L to R: V. DiGennaro; M. Zenk; L. Korosy; R. Horton; H. McNulty; J. Sidoti; F. Brusasco; W. Neuner; F. Swatko; C. Gallaer; D. Davidson; D. Matson; W. Egen. *Second row:* W. Lindenfelser; H. Egen; F. Diemer; J. Graham; J. Dewender; G. Geisenhainer. *Front row:* J. Johl; A. Frascella; R. Hermida.

Phi Sigma Omega

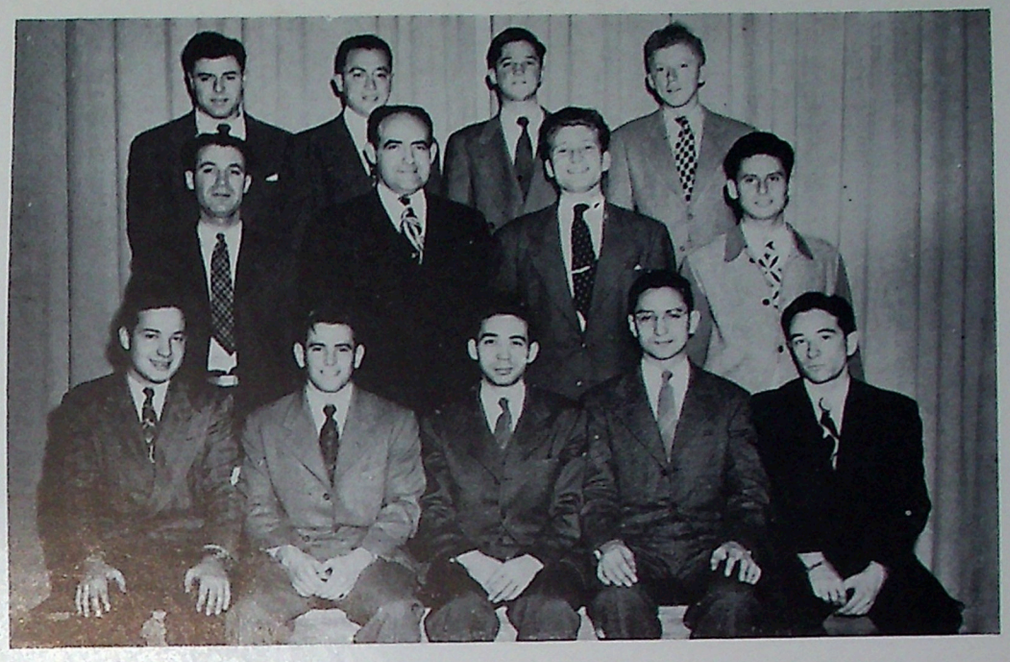
After unsuccessfully weathering the war years, an active nucleus of Phi Sigma Omega men have revived the organization. It is a pleasure and an honor for us to say hello again to all the members of The Cooper Union. The members of the Night Engineering School, who during their sojourn at Cooper joined P.S.O., have helped to continue the traditions and spirit of this fraternity through both lean and full years. During the past two years, a strong effort has been exerted to streamline and to coordinate the activities of the fraternity having as an objective a more complete fulfillment of the social and scholastic needs of both present and future Night Engineering students.

A full schedule of both recreational and academic events programmed before the beginning of the new school year has made P.S.O. a healthy growing organization which is looking to the future objectively, blending pleasure with business.

The keynote of the aims and policies of Phi Sigma Omega is that of sponsoring whole-hearted cooperation and comradeship among its members and their associates. Such motivation is inherent in both the academic and social progress of the organization.

To supplement your efforts directed toward filling the voids in your social life while attending Night Engineering school, P.S.O. invites you to join its membership and to participate in the informal dances, discussions, parties, picnics and summer outings. For those who are looking for the opportunity to join with their classmates in down-to-earth study sessions, P.S.O. membership offers the use of its quarters for both you and your friends.

The members of Phi Sigma Omega extend their hearty congratulations to the 1948 graduates, and their best wishes for a pleasant vacation to the administrative staff, the faculty, and all the members of the student body.



Top row, L to R: S. Clark; S. Chipkin; J. Nudelman; J. Pedowicz. *Second row:* H. Tanzer; M. Levine; E. Greenberg; S. Hirsch. *Front row:* W. Kastelman; S. Stein; I. Stern; M. Stark; M. Marder.

Chapters

Alpha—Cooper Union
Beta—City College of New York
Epsilon—Columbia University
Iota—New York University
Pi—Long Island University
Upsilon—Brooklyn College
Phi—St. John's University
Chi—Brooklyn College of Pharmacy

Fraters in Collegio

Prior—Irving Stern
Vice Prior—Max Stark
Exchequer—Israel Pisetzner
Scribe—Edwin Greenberg

Julian Babitz
Sidney Chipkin
Seymour Clark
Stanley Hirsch
William Kastelman
Milton Levine
Milton Marder
Ralph Orenstein
Morris Papish

Alpha Mu Sigma

In 1914, Alpa Mu Sigma was founded at the Cooper Union. From its inception, its purpose has been to develop the "whole man" and to promote a foundation for strong friendships which endure through the years. Today there are 8 active chapters and 3 alumni chapters. During the war years this fraternity was dormant at Cooper, but in 1946 with the return of the brothers it was reactivated.

All during the year the calendar of the hard working engineers is rounded out with dances, parties and smokers, sometimes with the cooperation of other chapters. The highlights of this year were the Christmas Dance at the Hotel Taft and the Annual Convention Dinner. With infinite perseverance, the brothers have reestablished the fraternal bonds which have welded them together in the past and have established new and lasting ones.

Benjamin Goldberger,
President
Robert Comninos,
Vice President
Rubin Boxer,
Treasurer
Archie Boscia,
Recording Secretary
Sidney Kaufman,
Corresponding Secretary
Jesse Acker
Robert Boyens
Herbert Cohen
Joseph Deare
Edward Durbin
Walter Edge
Philip Goodman
William Honig
Robert Kanzler
Murray Silverman
Harold Spett

Top row, L to R: M. Silverman; P. Goodman; B. Horozan; S. Kaufman; W. Edge. *Second row:* A. Boscia; H. Cohen; J. Acker; W. Honig; R. Boxer; J. Deare; B. Goldberger. *Front row:* B. Boyens; B. Comninos; Mr. F. Caldiero; H. Spett; B. Kanzler; E. Durbin.

Sigma Kappa Tau

OUR WORK AND WEEP SONG

From the tables at McSorley's, to the place where Burdell dwells,
To the dear old Physics lab we know so well,
Groan the engineers assembled, with their tales of solemn woe,
How they thought they had a hundred, but oh hell!
But the thing that cuts the deepest and the blow that tears the heart,
Is the quick-freeze of the girls who study art.
We are cloistered here at Cooper, like a monastery cold,
Till we pass or flunk and stay till we are old.

We're poor engineers who long to be gay,
Bah, Bah, Bah.
Who thought the Art girls would come our way,
Bah, Bah, Bah.
Trying to date a cute secretary,
Drowning our sorrows in SKT,
Dean have mercy on such as we,
Bah, Bah, Bah.

(With apologies to Yale)

President: Ben Luberoff
Vice President: Irving Rosner
Recording Sec'y: Solomon Brody
Corr. Sec'y: Sheldon Katz
Treasurer: Norman Sacks

American Veterans Committee

As the number of veterans in Cooper grew, the need was felt for an organization to represent them. Finally, in September 1946, a small group of veterans got together during a trip to Camp Green and laid the groundwork for the Peter Cooper Chapter of the American Veterans Committee.

AVC, the parent body, is a national organization, and is recognized and respected as the biggest and most progressive of the veteran groups of World War II. Its position can be summed up in its slogan, "Citizens first, veterans second," and in its fight for "a democratic and prosperous America and a more stable world."

The Peter Cooper Chapter has supplemented the national policies of its parent organization. (AVC has been a leader in the losing fight for lower prices, civil liberties, and housing). The chapter has also been instrumental in adjusting the inequities in the supply allowances granted veterans, and in supplementing the services offered by the school's Veteran Counselor.

Under the able leadership of Ben Luberoff and Irving Rosner, chairman and vice-chairman respectively, the chapter has grown rapidly, until now its more than fifty members make it the largest student organization on the campus.

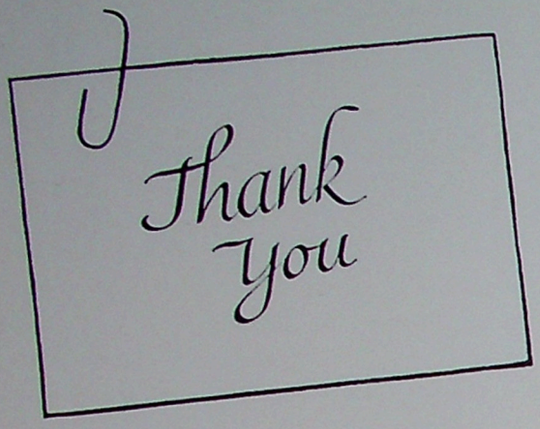
President
Wallace C. Hickman
Vice President
William T. Phillips
Treasurer
Guy Giordano
Recording Secretary
Karl J. Zimmer
Corresponding Secretary
Norma Mullusky
Spiritual Advisor
Rev. John P. Smyth
Faculty Advisor
Dr. James N. Eastham

Newman Club

The Newman Club is an organization for Catholic culture and fellowship. Its object is the development of spiritual, intellectual and social interests among the Catholic students of the Cooper Union. Organized in 1923 it became affiliated with over 250 other clubs in the country which comprise the Newman Club Federation. There are twenty-six Newman Clubs in the New York Province of the Federation and the Cooper Union Chapter takes part in all Province activities.

Throughout the year bi-weekly meetings of the Cooper Union Newman Club are held to discuss topics of spiritual and intellectual interest. These topics are aimed to inspire the members with an idealism and a zeal to work for a better world where justice, charity, security and an abiding peace will be the rightful possessions of all peoples. Toward this end the kindly advice of Father Smyth, a former navy chaplain, is most inspiring.

Social events for the past year included several dances, a trip to camp, Communion breakfasts, and the annual Province convention held at the Commodore Hotel.



Beneath the exterior structure of any publication lies various personalities whose help and guidance contribute towards successful production. The 1947-48 CABLE holds no exception to the adage. The steps thru the long year of preparation were large and tedious to climb but with the assistance of such people below, we have ascended faster and done better.

Therefore, it is with sincere gratitude that we thank:—

Professor Raymond B. Dowden—who has been a most understanding advisor and remaining at all times a friend.

Professor Herbert F. Rommele, Industrial Relations Officer—who authored the remarks concerning Dean Bateman and in other ways contributed with timely criticism and opinions.

Mr. Art Fleisher of Comet Press—who has been a strong friend and invaluable aide during the production of the book. And to the new Mrs. Fleisher: for sharing Art with the Cable Staff many nights during the past months—our thanks.

Teddy Martin, whose consideration for, and appreciation of Cooper students were dictated by her understanding of "us." All of us will miss you, Teddy!

The gentlemen at Delma Studios—Messrs. Kerker, Rubens, and Fields for their professional advice and services.

Elliot Kanner of the library staff—for his assistance in preparing the article concerning the library.

In closing we should like to thank those various organizations and advertisers who by virtue of their subscriptions have helped produce the 1947-48 CABLE.

Before Closing . . .

Now that you have seen the 1948 *Cable,* we would like to summarize the several alterations that have been made in the format and to also tie up any loose ends that may be lying around.

Undoubtedly, the most pronounced change in the context of this book is the elimination of posed class pictures. These pictures have never been an accurate pictorial record (which by the way has been the only purpose for including them in previous yearbooks) and not only that but they in no way reveal the character of Cooper college life. In the space usually occupied by class pictures, we have placed a photographic record of daily campus activities. Whether this new procedure shall be followed in future Cables will be determined by your response to our innovation.

One of the greatest accomplishments of the *1948 Cable* will go unseen by most. That accomplishment is the development of staffs now experienced and capable of assuming the responsibility of future *Cable* production. It is with sincere personal pride that I say that our staff has grown by leaps and bounds, and that its growth has fostered a camaraderie much needed on Cooper Square.

We of the *Cable* are also proud to say that the success of the Business and Advertising staff has been an integral factor in helping to make this *Cable* the largest Cooper yearbook in years.

Before concluding I shall like to tender thanks to guys and gals like Cy Freeman, Jonas Harrison, Ben Luberoff, Eli Rubin, Eddie Greenberg, Bernie Hillman, Irv Hammer, Joe Deare, Vivian Mutchnick, and Marilyn Hoffman who have helped make our *Cable* a success.

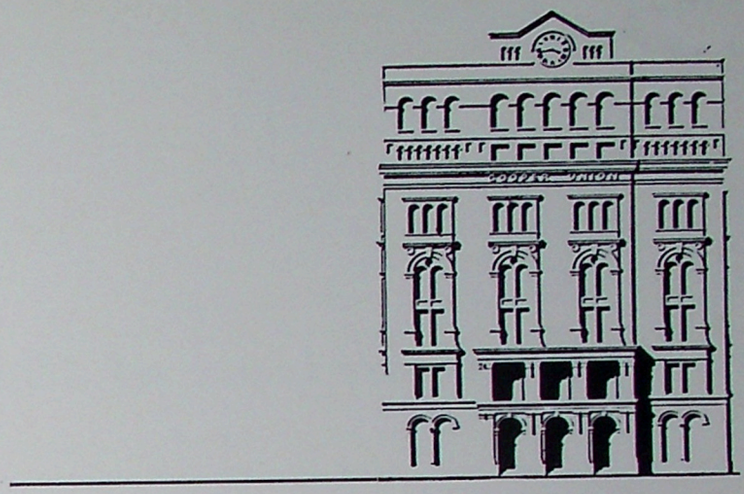
We have cast the die! The product of our labor will rapidly take its place in the ever growing past, and all we hope is that it shall serve to enrich your memories of Cooper.

Yours Sincerely,

Bob Sheridan

Bob Sheridan
Editor

COOPER



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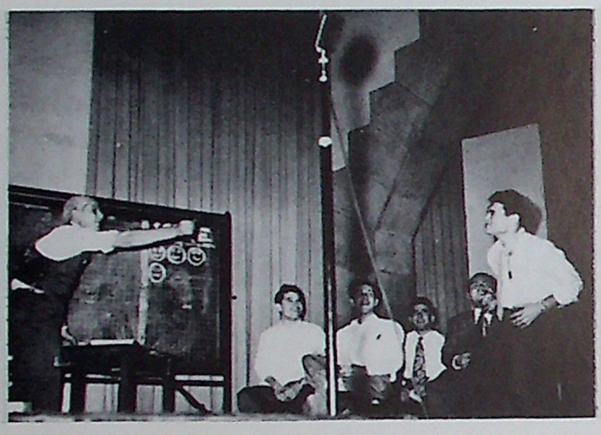
from "Plagiarisms of 1948"



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ASSETS

Cash in Vaults and Due from Banks	$214,445,596.39
U. S. Government Securities	508,552,309.09
($21,812,302.30 pledged to secure deposits and for other purposes as required by law.)	
Federal Reserve Bank Stock	1,200,000.00
State, Municipal and Public Securities	10,602,955.21
Other Securities	879,940.00
Loans and Discounts	79,963,291.35
First Mortgages	1,590,775.05
Customers' Liability on Acceptances	480,268.52
49 Banking Houses	7,804,601.60
Accrued Income Receivable	2,274,906.94
Other Assets	287,942.57
	$828,082,586.72

LIABILITIES

Capital	$15,000,000.00	
Surplus	25,000,000.00	
Undivided Profits	3,592,842.62	$ 43,592,842.62
Reserve for Taxes, Expenses, etc.		1,640,265.58
Acceptances Outstanding	$ 1,093,576.54	
Less: Held in Portfolio	448,267.63	645,308.91
Deposits		782,204,169.61
(Includes $6,124,958.69 U. S. Deposits)		
		$828,082,586.72

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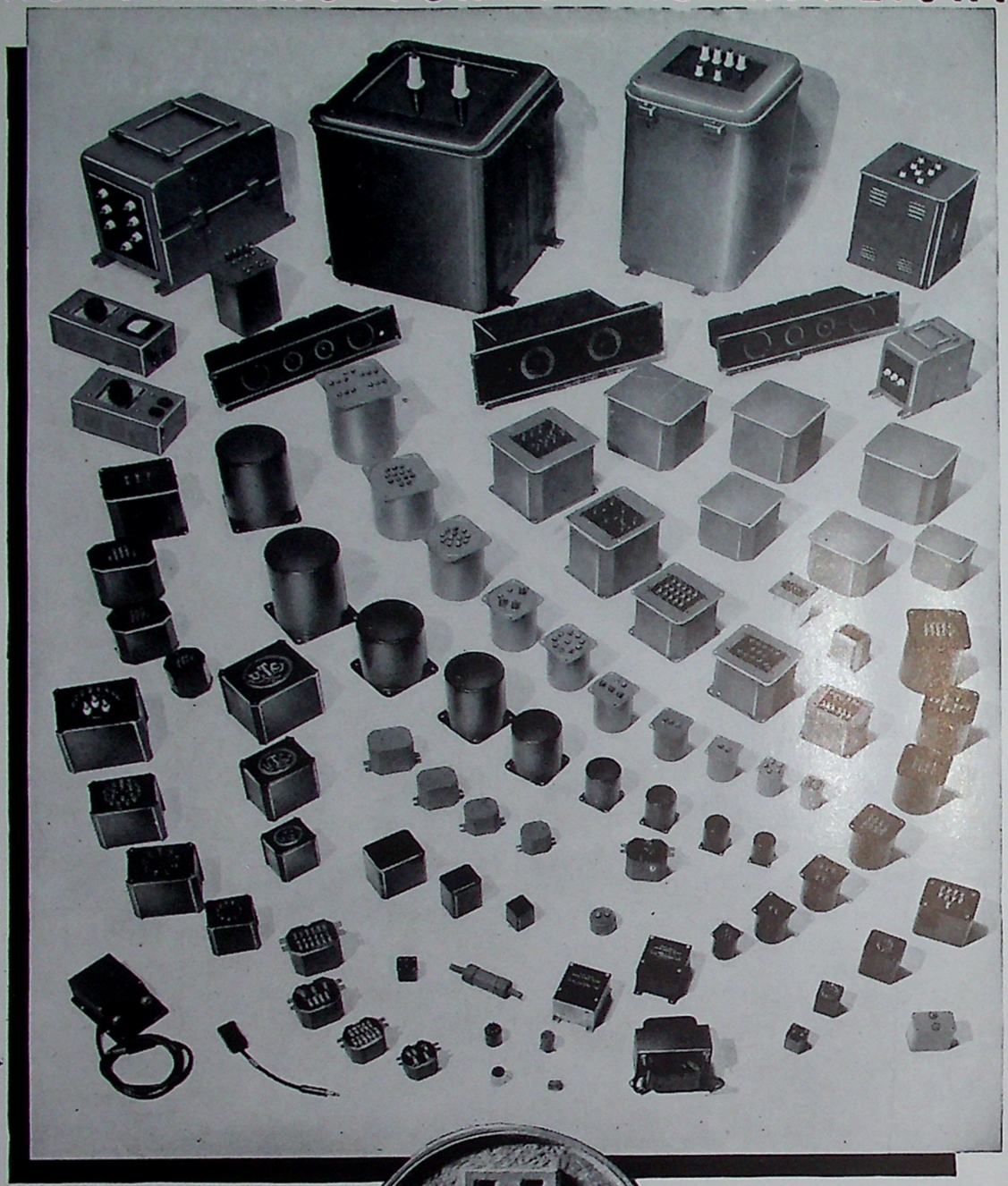

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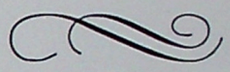

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